



505783

**DAILY REPORT****Project: South Dayton  
Dump (SDD)****Project #: 419879****Date: 07/30/2012****Weather: Partly Cloudy****Precip: none****Temp: 68 <sup>OF</sup> 86 <sup>OF</sup>**  
**Min Max****1. Personnel and Area(s) of Responsibility:**

<b>Name of Personnel</b>	<b>Hours</b>	<b>Employer</b>	<b>Location/Work Description</b>
Kim Stokes	12	CH2M HILL	Oversight of CRA's VI sampling
Dawit Tecle	6	CH2M HILL	Oversight of CRA's VI sampling
Greg Lewis	13	CRA	VI Study – collect VI samples
Chris Ruef	10	Terran	VI Study – collect VI samples



## 2. Work Performed Today:

- CRA purged and leak checked (with Helium) two subslab soil gas probes (previously installed by USEPA subcontractor) in Building 1 on Parcel 5223 (Vinny's Restaurant). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes with the purged air collected in a 2L Tedlar bag.

-CRA collected two 8-hour subslab soil gas samples in Building 1 on Parcel 5223 (Vinny's Restaurant). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes and in the indoor air before and after the 8-hour sampling period.

- CRA set out one 24-hour indoor air and one 24-hour outdoor air sample at Building 1 on Parcel 3253 (Ron Barnett's house). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID of the indoor and the ambient air before the 24-hour sampling period.

- CRA purged and leak checked (with Helium) one subslab soil gas probes in Building 2 on Parcel 3253 (Ron Barnett's garage). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag. Two sets of readings were collected at least eight hours apart.

- CRA set out one 24-hour crawl space air and one 24-hour outdoor air sample at Trailer Unit #15 on Parcel 2943 (Trailer Park). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the crawl space and in the ambient air before the 24-hour sampling period.

- CRA set out one 24-hour crawl space air sample at Trailer Unit #112 on Parcel 2943 (Trailer Park). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the crawl space and in the ambient air before the 24-hour sampling period.

-CRA purged and leak checked (with Helium) two 8-hour subslab soil gas probes in Building 1 on Parcel 3254 (Middleton Trucking). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes with the purged air collected in a 2L Tedlar bag.

-CRA purged and leak checked (with Helium) two 8-hour subslab soil gas probes in Building E on Parcel 4610 (Ron Barnett Construction). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes with the purged air collected in a 2L Tedlar bag.

-CRA purged and leak checked (with Helium) one 8-hour subslab soil gas probe in Building D on Parcel 4610 (Ron Barnett Construction). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag.

-CRA purged and leak checked (with Helium) one 8-hour subslab soil gas probe in Building C on Parcel 4610 (Ron Barnett Construction). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag.

-CRA purged and leak checked (with Helium) one 8-hour subslab soil gas probe in Building B on Parcel 4610 (Ron Barnett Construction). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag.

## 3. Work Planned for the Next Day:

- CRA will continue to perform VI sampling (collect 24 hour sample canisters set out on 7/30/12, purge and leak check subslab soil gas probes for sample collection on 8/01/12).



**4. Comment(s) on Work Observed/Controversial Matters:**

-All subslab soil gas probes passed the helium leak check

-There were no subslab soil gas probes with methane and/or LEL concentrations greater than zero.

-An attempt was made to collect a crawl space air sample at Trailer Unit #13 on Parcel 2943 however the trailer skirt appeared to be damaged and a large section was missing from the trailer (see attached photo #1). The Trailer Park manager was contacted by CRA and the manager recommended a substitute trailer she owned (Unit #112) for the crawl space air sampling. Photo #2 and #3 (attached) show the penetrations in the Unit #112 trailer skirt.

Kimberly Stokes

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## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 419879

Date: 08/10/2012

Weather: *Partly cloudy*

Precipitation: light rain

Temp: 52<sup>0F</sup> 76<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Tecele	3	CH2M HILL	Oversight of CRA's VI sampling
Greg Lewis	3	CRA	VI Study – collect VI samples
Jeremy Teepen	3	CRA	VI Study – collect VI samples
Chris Ruef	3	Terran	VI Study – collect VI samples

### 2. Work Performed Today:

- CRA purged and leak checked (with Helium) five subslab soil gas probe in Building 1 on Parcel 3207 (Globe Equipment Building); the probes passed the leak test. CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID using the 2L of purged air from the subslab probes.
- CRA purged and leak checked (with Helium) six subslab soil gas probe in Building 2 on Parcel 3207 (Globe Equipment Building); the probes passed the leak test. CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID using the 2L of purged air from the subslab probes.
- CRA collected radon samples at Building 2 on Parcel 3207 (Globe Equipment Building); four subslab soil gas and four indoor air samples were collected.

### 3. Work Planned for the Next Day:

- CRA will complete VI sampling at the Globe Building on Saturday (8/11/2012).



**4. Comment(s) on Work Observed/Controversial Matters:**

- There were no subslab soil gas probes with methane and/or LEL concentrations greater than zero.
- The HVAC systems in both building # 1 and building #2 were set onto regular weekday operating conditions while samples were collecting.

Dawit Tecle

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## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879**

**Date: 08/11/2012**

**Weather: Sunny**

**Precipitation: Light rain**

**Temp: 56<sup>OF</sup> 74<sup>OF</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Tecele	10	CH2M HILL	Oversight of CRA's VI sampling
Greg Lewis	10	CRA	VI Study – collect VI samples
Jeremy Teepen	10	CRA	VI Study – collect VI samples
Chris Ruef	10	Terran	VI Study – collect VI samples

### 2. Work Performed Today:

- CRA collected five 8 hr subslab soil gas (one duplicate) and three 8 hr indoor air samples (duplicate) in Building 1 on Parcel 3207 (Globe Equipment Building). CRA performed field measurements of methane, LEL, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID before and after the 8 hour sampling period.
- CRA collected six 8 hr subslab soil gas and four 8 hr indoor air samples in Building 2 on Parcel 3207 (Globe Equipment Building). CRA performed field measurements of methane, LEL, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID before and after the 8 hour sampling period.
- CRA collected one 8 hr outdoor air sample on the northwestern corner of Building 1 on Parcel 3207 (Globe Equipment Building). CRA performed field measurements of methane, LEL, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID before and after the 8 hour sampling period.
- CRA collected one 8 hr outdoor air sample (with a duplicate) on the southwestern corner of Building 2 on Parcel 3207 (Globe Equipment Building). CRA performed field measurements of methane, LEL, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID before and after the 8 hour sampling period.

### 3. Work Planned for the Next Day:

- None.



**4. Comment(s) on Work Observed/Controversial Matters:**

- There were no subslab soil gas probes with methane and/or LEL concentrations greater than zero.
- The HVAC systems in both Building # 1 and Building #2 were set onto regular weekday operating conditions while samples were collecting.
- Three summa canisters had final pressure greater than 10''Hg at the end of 8 hr monitoring. Canister deployed at Probe D in Building # 2 had a final pressure of -11''Hg after 8-hrs and 30 minutes. Canister deployed at Probe F in Building # 2 had a final pressure of -15.5''Hg after 8-hrs and 20 minutes. Canister deployed at Probe E in Building # 1 had a final pressure of -17''Hg after 9 hrs. CRA couldn't continue sampling to bring the final pressure to below 10'' Hg, as outlined in the Work Plan due to access issue.

Dawit Tecle

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-CRA purged and leak checked (with Helium) one 8-hour subslab soil gas probe in Residential Building on Parcel 3263 (Residential House, 2373 East River Road). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag.

-CRA purged and leak checked (with Helium) one 8-hour subslab soil gas probe in Residential Building on Parcel 3251 (Residential House, 2232 East River Road). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the subslab probe with the purged air collected in a 2L Tedlar bag.

**3. Work Planned for the Next Day:**

- CRA will continue to perform VI sampling (collect 24 hour sample canisters set out on 7/31/12, purge and leak check subslab soil gas probes for sample collection on 8/01/12).



**4. Comment(s) on Work Observed/Controversial Matters:**

- All subslab soil gas probes passed the helium leak check
- There were no subslab soil gas probes with methane and/or LEL concentrations greater than zero.
- 6L Summa canisters set out on 7/30/2012 for 24 hour sample collection (Building 1 @ Parcel 3253; Trailer Unit #15 and #112 @ Parcel 2943) reached 0" Hg before 24 hours of collection time. CRA verified that Test America sent 8 hour flow controllers with the first batch of individually certified 6L Summa cans instead of 24 hour flow controllers. 24 hour flow controllers were identified and a new set of 6L canisters were set out today for a 24 hour sample collection period. These canisters will be collected on 8/01/2012.
- All doors/ gates at Building 1 on Parcel 3254 (Middleton Trucking) and Building E on Parcel 4610 (Ron Barnett Construction) were left open during sample collection. Per the employees at the buildings, the doors/gates are left open during operating hours in hot weather.
- Laura Marshall (Ohio EPA) was onsite today from 07:25 to 09:25.
- Randy Kirkland (Westin Solutions) was onsite today from 13:30 to 14:15 to observe a leak check at Parcel 3262.

Kimberly Stokes

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## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879**

**Date: 09/11/2012**

**Weather: Sunny**

**Precipitation: none**

**Temp: 55<sup>OF</sup> 80<sup>OF</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Tecle	10	CH2M HILL	Oversight of CRA's VI sampling
Greg Lewis	10	CRA	VI Study – collect VI samples
Jeremy Teepen	10	CRA	VI Study – collect VI samples

### 2. Work Performed Today:

- CRA purged and leak checked (with Helium) two subslab soil gas probes in Building 1 on Parcel 5223 (Vinny's Restaurant) at the storage room and office. CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes with the purged air collected in a 2L Tedlar bag.
- CRA collected one 8-hour subslab soil gas sample (with duplicate) and one 8-hour indoor air sample in Building 1 on Parcel 5223 (Vinny's Restaurant) storage room. CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes and in the indoor air before and after the 8-hour sampling period.
- CRA collected radon samples at Building 1 on Parcel 5223 (Vinny's Restaurant) storage room; one subslab soil gas and one indoor air samples were collected.
- CRA collected one 8-hour subslab soil gas sample and one 8-hour indoor air sample in Building 1 on Parcel 5223 (Vinny's Restaurant) office. CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at both subslab probes and in the indoor air before and after the 8-hour sampling period.
- CRA collected radon samples at Building 1 on Parcel 5223 (Vinny's Restaurant) office; one subslab soil gas and one indoor air samples were collected.
- CRA collected one 8-hour outdoor air sample (with duplicate) outside of Building 1 on Parcel 5223 (Vinny's Restaurant) south of the storage room. CRA performed field measurements of methane, LEL, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID before and after the 8 hour sampling period.
- CRA set out one 24-hour crawl space air (with duplicate) and one 24-hour outdoor air sample at Trailer Unit #15 on Parcel 2943 (Trailer Park). CRA performed field measurements of methane, carbon dioxide, and oxygen with the GEM 2000 (with and without the carbon filter) and total VOCs with the PID at the crawl space and in the ambient air before the 24-hour sampling period.

### 3. Work Planned for the Next Day:

- CRA will continue to perform VI sampling (collect 24 hour sample canisters set out on 09/11/12, purge and leak check subslab soil gas probes for sample collection).



**4. Comment(s) on Work Observed/Controversial Matters:**

- There were no subslab soil gas probes with methane and/or LEL concentrations greater than zero.
- The duplicate 8-hour outdoor summa canister deployed outside of Building 1 on Parcel 5223 (Vinny's Restaurant) had final pressure of -12" Hg at the end of 8 hour monitoring.

Dawit Tecle

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## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/03/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>OF</sup> 78<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	8	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	8	CRA	SDD/Landfill gas (LFG) Investigation
Nate Zeigler	8	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and Scope of activities planned for this mobilization.  
Purged and collect soil gas sample from GP13-08

### 4. Work Planned for the Next Day:

Continue soil gas sampling

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA spent the first half of the day figuring how to construct a helium chamber over the stick up for the soil gas wells.

When GP13-08 was installed, the borehole was advanced to 25ft bgs and the screen for the soil gas probe was set at 7ft bgs, the space between the bottom of the screen and the bottom of the borehole was filled with #3 sand. While calculating the well volume ( which is to include the well and sand pack) for the purpose of purging before collecting soil gas, CRA only considered the bottom of sand pack to be 8 inches below the bottom of screen and not the entire sand packed section of the 25ft borehole.

About 45 minutes into sample collection in GP13-08, it was observed that the percentage of helium gas (recorded by the helium probe) in the helium gas chamber decreased from 97.8% to 92%. CRA increased helium flow into the chamber so as to keep the percentage recorded at 96.9%. A post sample helium gas test in the sample train indicated 12.9% helium. As a result of the helium gas detection in the trail, it was concluded that the seal in the trail must have a leak. After consultation with CRA Project Management, it was decided that GP13-08 will be re-sampled.

Osaguona Ogbebor

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## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/04/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>OF</sup> 78<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	8	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Greg Lewis	8	CRA	SDD/Landfill gas (LFG) Investigation
Nate Zeigler	8	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and scope of activities planned for this mobilization.  
Purged and collect soil gas sample from GP13-08 (re-sampled because helium gas was detected in the sampling trail during the post sampling test on 09/03/09)  
Purged GP14-08  
Changed slip caps and valves on soil gas monitoring probes to screw on caps and valves

### 4. Work Planned for the Next Day:

Continue soil gas sampling

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA experienced problems with helium gas leakage into the sampling trail during soil gas probe purge and sampling. After several attempts to archive a good seal and prevent helium gas leak into the trail, it was discovered that the slip caps used to attach the sampling valves to the soil gas wells were not making a good seal with the well riser during vacuum purge. After consultation with CRA Project Management, CRA decided to replace the slip caps with threaded caps in all the soil gas monitoring wells.

Osaguona Ogbebor

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## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/11/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>OF</sup> 78<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	8	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Nate Zeigler	8	CRA	SDD/Landfill gas (LFG) Investigation
Nick	8	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and tailgate meeting.

Purged and collect soil gas sample from GP14-08, GP15-08, GP-17-08, GP18-08

### 4. Work Planned for the Next Day:

Continue soil gas sampling

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA conducted helium test in the sampling train after collecting soil gas sample from each soil gas probe. The purpose of the test was to demonstrate that collected sample has not been diluted by ambient air or tracer gas. Neither the CRA Letter Work plan nor the FSP specified the amount of Helium that can be detected in the sampling train for the sample to be considered non-compromised. CRA decided to allow up to 10% of the starting helium concentration before considering the sample compromised.

Results of all the post sampling helium test were below 10% of starting helium concentration.

Osaguona Ogbebor

Form Completed by

## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/14/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>OF</sup> 78<sup>OF</sup>  
Min Max

**1. Personnel and Area(s) of Responsibility:**

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	9	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Nate Zeigler	9	CRA	SDD/Landfill gas (LFG) Investigation
Nick	9	CRA	SDD/Landfill gas (LFG) Investigation

**3. Work Performed Today:**

Reviewed HASP and tailgate meeting.  
Purged and collect soil gas sample from GP116-08, GP19-08, GP-20-08

**4. Work Planned for the Next Day:**

Continue soil gas sampling

**5. Comment(s) on Work Observed/Controversial Matters:**

CRA made several attempts to purge and sample GP01-08. On each of the attempts, helium gas concentration in the sample train was more than 10% of the starting helium concentration. CRA decided to delay sampling GP01-08 until further evaluation can be made on the probe to determine if the riser was damaged during well construction.

Results of all the post sampling helium test in soil gas probes sampled were below 10% of starting helium concentration.

Osaguona Ogbebor

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## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/15/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>0F</sup> 80<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	10	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Nate Zeigler	7	CRA	SDD/Landfill gas (LFG) Investigation
Nick Hill	10	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and tailgate meeting.

Purged and collect soil gas sample from GP02-08, GP03-08, GP05-08, GP09-08 and GP10-08

### 4. Work Planned for the Next Day:

Continue soil gas sampling

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA has not been monitoring for methane gas in the soil gas probes as indicated in the Landfill Gas Investigation Letter Work plan. Instead, they have indicated that they will monitor all the probes for methane in a day at the end of the soil gas sampling.

Results of all the post sampling helium test in soil gas probes sampled were below 10% of starting helium concentration.

Osaguona Ogbebor

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## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 350914

Date: 09/16/2009

Weather: Sunny

Precip: 0

Temp: 57<sup>0F</sup> 78<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Tecle	9	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Greg Lewis	7	CRA	SDD/Landfill gas (LFG) Investigation
Nick Hill	8	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and tailgate meeting.

Purged and collected soil gas sample from GP04-08, GP21-08, GP11-08, GP12-08, GP06-08 and GP07-08

### 4. Work Planned for the Next Day:

Complete soil gas sampling at GP01-08 and GP08-08

Monitor for methane gas in all soil gas probes.

### 5. Comment(s) on Work Observed/Controversial Matters:

Results of all the post sampling helium test in soil gas probes sampled were below 10% of starting helium concentration.

Dawit Tecle

Form Completed by



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 09/17/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 57<sup>0F</sup> 78<sup>0F</sup>  
Min Max

**1. Personnel and Area(s) of Responsibility:**

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	8	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Greg Lewis	8	CRA	SDD/Landfill gas (LFG) Investigation
Nick Hill	8	CRA	SDD/Landfill gas (LFG) Investigation

**3. Work Performed Today:**

Reviewed HASP and tailgate meeting.

Purged and collected soil gas sample from GP08-08

Attempted repairing riser in GP01-08

**4. Work Planned for the Next Day:**

Monitor for methane gas in all soil gas probe.

**5. Comment(s) on Work Observed/Controversial Matters:**

CRA attempted repairing the riser in GP01-08; however when they attempted to sample the vapor point, helium concentration recorded in the sample train was greater than 10% of starting helium concentration. CRA indicated that they may have to remove the surface completion so as to be able to repair the crack in the riser before attempting to sample the vapor point again.

The methane monitoring meter (GEM 2000) CRA received today did not come with appropriate fittings to connect the meter to the vapor point. CRA will get the appropriate fittings and conduct methane monitoring in all the vapor points tomorrow.

Results of all the post sampling helium test in soil gas probes sampled were below 10% of starting helium concentration.

Osaguona Ogbebor

Form Completed by

## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 350914

Date: 09/18/2009

Weather: Sunny

Precip: 0

Temp: 57<sup>OF</sup>

78<sup>OF</sup>

Min

Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	3	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Greg Lewis	3	CRA	SDD/Landfill gas (LFG) Investigation
Nick Hill	3	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Reviewed HASP and tailgate meeting.

Monitor for Methane gas in 21 soil gas probes using GEM 2000

### 4. Work Planned for the Next Day:

None.

### 5. Comment(s) on Work Observed/Controversial Matters:

Following is percentage methane gas detected in each of the gas probes; **GP01 (28.1%)**, GP02 (19.6%), GP03 (0.0%), GP04 (7.9%), GP05 (0.0%), GP06 (0.0%), GP07 (0.0%), GP08 (0.0%), GP09 (0.1%), GP10 (0.1%), GP11 (0.0%), GP12 (0.1%), GP13 (3.7%), GP14 (0.0%), GP15 (4.8%), GP16 (3.7%), GP17 (1.3%), GP18 (26.6%), GP19 (0.1%), GP20 (0.0%) and GP21 (7.6%).

GP01 is the soil vapor monitoring point that was not sampled because it is suspected that the casing is damaged and thus letting helium gas into the sample train. The vapor point was however monitored for methane and the result is the highest methane gas detected at the site. CRA is planning to remove the surface pad, repair the damaged casing and reinstall the surface pad as flush mouth before sampling the point for soil gas.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 350914**

**Date: 08/18/2009**

**Weather: Sunny**

**Precip: None**

**Temp:** 65<sup>0F</sup> 85<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	10	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	10	CRA	SDD/Landfill gas (LFG) Investigation
Jason Baurk	10	CRA	SDD/Landfill gas (LFG) Investigation
Driller (subcontractor)	10	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Review HASP and Scope for Mobilization  
Drill and logged:

GP06-08 = material encountered consisted of 0-6ft silty clay with some sand, gravel and plant remains; 6-19.5ft sand and gravel; 19.5-20 ft clayey silt with sand and gravel (till). The interval 10-14ft bgs was moist, water table was encountered at 14ft bgs. LFG/soil vapor monitoring point was installed at 10ft bgs.

GP07-08 = material encountered consisted of 0-3ft silty clay with some sand, gravel and plant remains; 3-18.5ft sand and gravel; 18.5-20 ft, clayey silt with sand and gravel (till). A geotechnical sample was collected from 0-2ft bgs. The interval 13-15ft bgs was moist, water table was encountered at 15ft bgs, and LFG/soil vapor monitoring point was installed at 13ft bgs.

GP08-08 = material encountered consisted of 0-2.5ft silty clay with some sand, gravel and plant remains; 2.5-20ft sand and gravel. The interval 14-18 ft bgs was moist, water table was encountered at 18ft bgs. LFG/soil vapor monitoring point was installed at 13ft bgs.

### 4. Work Planned for the Next Day:

Continue drilling and installation of LFG/Soil vapor monitoring points

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA field geologist did not have the updated LFG/Soil Vapor monitoring point location map. Therefore, drilling and LFG/soil vapor monitoring points installation started in areas where the previously proposed and recently proposed locations for LFG/soil Vapor monitoring points are the same.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 350914**

**Date: 08/19/2009**

**Weather:** *On and off rain  
throughout the day*

**Precip:** Rain

**Temp:** 63<sup>OF</sup> 86<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	10	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	10	CRA	SDD/Landfill gas (LFG) Investigation
Jason Hushman	10	CRA	SDD/Landfill gas (LFG) Investigation
Chris Bryan	10	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Review HASP and scope for mobilization  
Drill and logged:

**GP05-08** = material encountered consisted of 0-12.5ft fill (ash, slag, sand, gravel and plant remains); 12.5-20ft sand and gravel. Two intervals (0-2ft and 16-18ft bgs) were sampled for geotechnical testing. The interval 17-19ft bgs was moist, water table was encountered at 19ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 8.0ft bgs.

**GP02-08** = material encountered consisted of 0-17ft fill (ash, slag, plastic, broken glass, sand, and gravel), 17-20ft, clayey silt with sand and gravel (till). Two intervals (0-2ft and 6.5-8.5ft bgs) were sampled for geotechnical testing. The interval 10-12ft bgs was moist, water table was encountered at 12ft bgs, and LFG/soil vapor monitoring point was installed within the fill material at 8.0ft bgs.

**GP03-08** = material encountered consisted of 0-15ft fill (concrete, brick, plastic, sand and gravel). Two intervals (0-2ft and 3-5ft bgs) were sampled for geotechnical testing. The interval 4-6 ft bgs was moist, water table was encountered at 6ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 5ft bgs.

**GP04-08** = material encountered consisted of 0-20ft fill (concrete, brick, wood, ash, slag, sand, silt, and gravel). Two intervals (0-2ft and 12-14ft bgs) were sampled for geotechnical testing. The interval 0-5ft was dry, 5-9.5ft wet; 9.5-19.5ft dry, water table was encountered at 19.5ft bgs. LFG/soil vapor monitoring point was installed within the fill material within the fill material at 13ft bgs.

### 4. Work Planned for the Next Day:

Continue drilling and installation of LFG/Soil vapor monitoring points

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA field geologist indicated on Tuesday that one representative sample will be collected from an area to test for geotechnical properties of soil material in the area. At USEPA directive, sampling for geotechnical testing was changed to two samples per LFG/soil vapor point location. CRA collected one surface sample (0-2ft) and one subsurface sample (across the screened interval) from each LFG/soil vapor point location.

CRA will be reminded tomorrow that sample for geotechnical testing was not collected from across the screened interval in GP05-08.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 08/20/2009

**Weather:** cloudy and light  
rain

**Precip:** light rain in the  
afternoon

**Temp:** 65<sup>0F</sup> 88<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Teclehaimanot	11	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	11	CRA	SDD/Landfill gas (LFG) Investigation
Jason Hushman	11	CRA	SDD/Landfill gas (LFG) Investigation
Chris Bryan	11	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Review HASP and scope for mobilization  
Drill and logged:

**GP11-08** = material encountered consisted of 0-10ft fill (ash, slag, sand, and gravel); 10-25ft sand and gravel. Two intervals (0-2ft and 8-10ft bgs) were sampled for geotechnical testing. The interval 20-22ft bgs was moist, water table was encountered at 22ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 9.0ft bgs.

**GP09-08** = material encountered consisted of 0-9ft fill (ash, slag, sand, and gravel), 9-20ft sand and gravel. Two intervals (0-2ft and 6.5-8.5ft bgs) were sampled for geotechnical testing. Water table was encountered at 18ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 8.0ft bgs.

**GP10-08** = material encountered consisted of 0-3ft fill (concrete, brick, plastic, sand and gravel). Two intervals (0-2ft and 16.5-18.5ft bgs) were sampled for geotechnical testing. The interval 20-22 ft bgs was moist, water table was encountered at 22ft bgs. LFG/soil vapor monitoring point was installed within the most permeable material above the water table fill material at 18.0ft bgs.

**GP14-08** = material encountered consisted of 0-8.5ft fill (concrete, brick, wood, ash, slag, sand, silt, and gravel), 8.5-20ft, sand and gravel. Two intervals (0-2ft and 6-7ft bgs) were sampled for geotechnical testing. The interval 0-5ft was dry, 7.5-8.5ft wet; 8.5-20 ft dry, water was not encountered at the 0-20ft interval. LFG/soil vapor monitoring point was installed within the fill material at 7ft bgs.

### 4. Work Planned for the Next Day:

Continue drilling and installation of LFG/Soil vapor monitoring points

### 5. Comment(s) on Work Observed/Controversial Matters:

None

Dawit Teclehaimanot

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 350914**

**Date: 08/21/2009**

**Weather: Sunny**

**Precip: 0**

**Temp:**      61<sup>OF</sup>      81<sup>OF</sup>  
                    Min          Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	9	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	9	CRA	SDD/Landfill gas (LFG) Investigation
Jason Hushman	9	CRA	SDD/Landfill gas (LFG) Investigation
Chris Bryan	9	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Tailgate meeting and discussion of scope for the day

Drill and logged:

**GP12-08** = material encountered consisted of 0-7.5ft fill (foundry sand, slag, brick, plastic, clay, sand, and gravel); 7.5-25ft sand and gravel. Two intervals (0-2ft and 4.5-6.5ft bgs) were sampled for geotechnical testing. The interval 21-23 bgs was moist; water table was encountered at 23ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 6.0ft bgs.

**GP13-08** = material encountered consisted of 0-19ft fill (foundry sand, slag, plastic, broken glass, wood, concrete, sand, and gravel), 19-25ft sand and gravel. Two intervals (0-2ft and 5.5-7.5ft bgs) were sampled for geotechnical testing. The interval 17-24ft bgs was moist, water table was encountered at 24ft bgs, and LFG/soil vapor monitoring point was installed within the fill material at 7.0ft bgs.

**GP15-08** = material encountered consisted of 0-10ft fill (foundry sand, concrete, brick, plastic, sand and gravel). Two intervals (0-2ft and 8.5ft bgs) were sampled for geotechnical testing. The interval 20-23 ft bgs was moist, water table was encountered at 23ft bgs. LFG/soil vapor monitoring point was installed within the fill material at 10ft bgs.

**GP16-08** = material encountered consisted of 0-12.5ft fill (foundry sand, concrete, brick, wood, glass, slag, sand, silt, and gravel), 12.5-25ft sand and gravel. Two intervals (0-2ft and 6.5-8.5ft bgs) were sampled for geotechnical testing. The 23-25 was moist; water table was not encountered. LFG/soil vapor monitoring point was installed within the fill material within the fill material at 13ft bgs.

**Demobilization;** CRA drill crew demobilized for the shift break, and the crew will return to site on Monday August 24, 2009

### 4. Work Planned for the Next Day:

Continue drilling and installation of LFG/Soil vapor monitoring points.

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA field geologist indicated that he does not know when LFG/soil vapor samples will be collected from the monitoring points installed thus far. I told him that per CRA LFG/Soil vapor Investigation letter work plan, the points installed on Tuesday August 18, will be ready for sampling as from Tuesday August 25. He will confirm the schedule with CRA Project management and let me know the schedule for LFG/Soil gas samples collection.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 08/24/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 63<sup>OF</sup> 82<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	7	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	7	CRA	SDD/Landfill gas (LFG) Investigation
Jason Hushman	7	CRA	SDD/Landfill gas (LFG) Investigation
Chris Bryan	7	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Tailgate meeting and discussion of scope for the day  
Drill and logged:

**GP20-08** = material encountered consisted of 0-12ft fill (silty sand, brick, wood remains, chalk-like material, and gravel); 12-25ft sand and gravel. Two intervals (0-2ft and 3.5-5.5ft bgs) were sampled for geotechnical testing. The interval 7-9ft bgs was wet (perched water), 9-23 was dry, water table was encountered at 23ft bgs. LFG/soil vapor monitoring point was installed close to the top of the fill material at 5.0ft bgs.

**GP19-08** = material encountered consisted of 0-22.5ft fill (silty sand, broken glass, burnt wood remains), 22.5-25ft sand/gravel/silt and clay. Two intervals (0-2ft and 3.5-5.5ft bgs) were sampled for geotechnical testing. The interval 17-18ft bgs was moist, water table was encountered at 18ft bgs, and LFG/soil vapor monitoring point was installed close to the top of the fill material at 5.0ft bgs.

**GP18-08** = material encountered consisted of 0-23ft fill (silty sand, brick, broken glass); 23-25ft bgs sand/gravel/silt/clay. Strong diesel-like odor and elevated PID reading was observed from 2.5-19ft bgs. Two intervals (0-2ft and 2.5-4.5ft bgs) were sampled for geotechnical testing. The interval 0-20 bgs was dry, 20-23ft bgs wet and 23-25ft bgs dry. LFG/soil vapor monitoring point was installed close to the top of the fill material at 4ft bgs.

**GP17-08** = material encountered consisted of 0-24ft fill (silty sand, glass, asphalt, brick and wood remains), 24-25ft sand/gravel/silt/clay. Two intervals (0-2ft and 2.5-4.5ft bgs) were sampled for geotechnical testing. The 23-25 was moist; water table was not encountered. LFG/soil vapor monitoring point was installed close to the top of the fill material at 4ft bgs.

### 4. Work Planned for the Next Day:

Continue drilling and installation of LFG/Soil vapor monitoring points.

### 5. Comment(s) on Work Observed/Controversial Matters:

At locations where fill material was encountered above the water table, CRA installed LFG/soil vapor monitoring point at depth close to the top of fill material

CRA Project Management confirmed that sampling of the LFG monitoring points will start on Monday August 31, 2009.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 08/26/2009

**Weather:** Sunny

**Precip:** 0

**Temp:** 63<sup>OF</sup> 82<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	9	CH2M HILL	SDD/Landfill gas (LFG) Investigation
Jason Close	9	CRA	SDD/Landfill gas (LFG) Investigation
Jason Hushman	9	CRA	SDD/Landfill gas (LFG) Investigation
Chris Bryan	9	CRA	SDD/Landfill gas (LFG) Investigation

### 3. Work Performed Today:

Tailgate meeting and discussion of scope for the day  
Drill and logged:

**GP01-08** = material encountered consisted of 0-19ft fill (silty sand, slag, pieces of glass, concrete, wood remains, paper); 19-25ft sand and gravel. Two intervals (0-2ft and 2.5-4.5ft bgs) were sampled for geotechnical testing. The interval 8-8.5ft bgs was wet (perched water), 8.5-25 was dry, water table was not encountered in this borehole. LFG/soil vapor monitoring point was installed close to the top of the fill material at 4.0ft bgs.

**GP21-08** = This location was installed next to GP04-08. Material encountered consisted of 0-5ft fill (silty sand, broken glass, burnt wood remains). Two intervals (0-2ft and 2.5-4.5ft bgs) were sampled for geotechnical testing. The interval 0-5ft bgs was dry. LFG/soil vapor monitoring point was installed close to the top of the fill material at 4.0ft bgs.

**Samples for Geotechnical Properties:** Collected samples for geotechnical properties testing from the following previously installed locations

- **GP-05** = Sampled 6.5-8.5ft bgs, the surface sample (0-2ft bgs) was collected when LFG/Soil Vapor monitoring point was installed at 8ft bgs
- **GP06-08** = Samples 0-2ft and 8.5-10.5ft bgs. LFG/Soil Vapor monitoring point was previously installed at 10ft bgs.
- **GP07-08** = Sampled 11.5-13.5ft bgs, the surface sample (0-2ft bgs) was collected when LFG/Soil Vapor monitoring point was installed at 13ft bgs
- **GP08-08** = Samples 0-2ft and 11.5-13.5ft bgs. LFG/Soil Vapor monitoring point was previously installed at 13ft bgs.

**Demobilization:** Drilled cleaned equipment and demobilized from the site

### 4. Work Planned for the Next Day:

None

### 5. Comment(s) on Work Observed/Controversial Matters:

GP21-08 was installed next to GP04-08 to monitor LFG/soil vapor in the shallow zone within the fill material. The perched water condition encountered at 5ft bgs in GP04-08 was also encountered in the first location drilled for GP21-08, a second location was drilled and the perched water condition was not encountered. LFG/Soil Vapor monitoring point was installed at 4ft in the second location where the perched water condition was not encountered.

Osaguona Ogbebor



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Form Completed by

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## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 350914

Date: 06/16/2009

Weather: cloudy

Precip: rain

Temp: 68<sup>0F</sup> 76<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	8	CH2M HILL	SDD/Observe NAPL Investigation
David Rivers	8	CRA	SDD/ VAS Sampling
Dan Morris	8	Boart Longyear	SDD/ VAS Sampling
Andrew	8	Boart Longyear	SDD/ VAS Sampling
Steve Gross	8	Boart Longyear	SDD/ VAS Sampling

### 3. Work Performed Today:

Drilled and installed MW-209A. Material encountered consists of 0-16ft fill (clay, silt, sand, gravel, brick, concrete) water table was encountered at 10ft bgs. 16-26ft sand and gravel wet and loose, 26-28ft Till (silt, sand and gravel) moist and very dense, 28-57ft sand and gravel wet and loose.

Installed MW-209A at 57ft bgs, screen set between 52-57ft bgs.

Completed flush mount protective casing for MW-217.

Mob and set drill rig over MW-215.

### 4. Work Planned for the Next Day:

Drill and install MW-215A.

### 5. Comment(s) on Work Observed/Controversial Matters:

None.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 06/17/2009

**Weather:** Clear and sunny

**Precip:** None

**Temp:** 68<sup>OF</sup> 87<sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	10	CH2M HILL	SDD/Observe NAPL Investigation
David Rivers	10	CRA	SDD/ VAS Sampling
Dan Morris	10	Boart Longyear	SDD/ VAS Sampling
Andrew Roberts	10	Boart Longyear	SDD/ VAS Sampling
Steve Gross	10	Boart Longyear	SDD/ VAS Sampling

### 3. Work Performed Today:

Drilled and installed MW-215B at 7.5ft east of VAS-09. Material encountered consists of 0-24ft fill (foundry sand, paper, plastic, slag, metal wood) wet at 22ft, 24-33ft sand and gravel wet and loose. Very strong odor observed from 0-26ft, black lustrous liquid observed at 22-26ft, However, Sudan IV NAPL test did not indicate presence of NAPL. 33-36ft Till (silt, sand and gravel) moist and very dense, 36-38ft sand and gravel wet and loose, 38-44ft Till (silt, sand and gravel) moist and very dense, 44-52ft Sand and gravel wet and loose, 52-53.5ft Till (clay, silt, sand and gravel) moist and very dense, 53.5-57 sand and gravel, wet and loose. CRA did not screen soil sample with PID. Installed MW-215B at 52ft, set screen at 47-52ft bgs.

Drilled and installed MW-215A at 7.75ft North of MW-215B. Material encountered was similar to material observed in MW-215B. Installed MW-215A at 29ft, set screen at 19-29ft bgs.

### 4. Work Planned for the Next Day:

Pull casing from and grout VAS-26/MW-213, Start drilling and monitoring well installation at MW-218B

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA plan was to install MW-215B at 54ft bgs with screen set from 49-54ft. However a till unit was encountered at 52-53.5ft in the borehole. The well was therefore installed at 52ft atop the till unit.

CRA indicated that monitoring well will not be installed at VAS-26/MW-213 location; the borehole already drilled is to be abandoned.

Osaguona Ogbebor

Form Completed by

South Dayton Dump - Daily Report for 1/5/10

Brett.Fishwild

to:

Karen Cibulskis

01/06/2010 08:35 AM

Cc:

Osaguona.Ogbebor

Show Details

History: This message has been replied to.

Hello Karen,

Attached is the Daily Report from Tuesday, January 5th in which CRA conducted onsite groundwater sampling. Per your direction, we will only observe the final priority onsite wells for sampling and not any of the DP&L wells. At this point, we do not have a schedule from CRA as to when those final onsite wells will be sampled. They are at the DP&L property today, and we will let you know as soon as we get their schedule for the onsite work.

Please let us know if you have any questions or concerns.

Thank you.

Brett A. Fishwild  
Associate Project Manager  
Geologist

CH2M HILL  
1 South Main Street  
Suite 1100  
Dayton, OH 45402  
Direct 937.220.2955  
eFax 937.234.6157  
Mobile 515.991.2404  
[www.ch2mhill.com](http://www.ch2mhill.com)



## DAILY REPORT

**Project:** South Dayton  
Dump (SDD)

**Project #:** 350914

**Date:** 01/05/2010

**Weather:** *Cloudy and chilly*

**Precip:** light snow

**Temp:** 15<sup>OF</sup>  
Min

23<sup>OF</sup>  
Max

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### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Dawit Tecle	9	CH2M HILL	Groundwater sampling
David Rivers	9	CRA	Groundwater sampling
Nick Hill	9	CRA	Groundwater sampling

### 3. Work Performed Today:

- Collected groundwater samples from MW-209A for *TCL, VOCs, SVOCs, PCBs, Pesticides, and TAL metal analysis*. Samples collected from these wells will not be analyzed for Herbicides
- Collected groundwater samples from MW-215A for *TCL, VOCs, SVOCs, PCBs, Pesticides, and TAL metal analysis*. Samples collected from these wells will not be analyzed for Herbicides
- Collected groundwater samples from MW-215B for *TCL, VOCs, SVOCs, PCBs, Pesticides, and TAL metal analysis*. Samples collected from these wells will not be analyzed for Herbicides
- Bladder pumps set at the middle of the screened section

### 4. Work Planned for the Next Day:

- Continue with groundwater sampling at the DP&L site. CH2M HILL will not conduct oversight of the sampling at the DP&L site.

### 5. Comment(s) on Work Observed/Controversial Matters:

Samples were collected with a low-flow sampling technique using bladder pump. Pumping rate was set between 150 to 200 ml/min. Water quality parameters were collected and verified for stabilization prior to collecting groundwater samples.

Dawit Tecle

Form Completed by

## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 350914

Date: 06/17/2009

Weather: Clear and sunny

Precip: None

Temp: 68<sup>0F</sup> 87<sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	10	CH2M HILL	SDD/Observe NAPL Investigation
David Rivers	10	CRA	SDD/ VAS Sampling
Dan Morris	10	Boart Longyear	SDD/ VAS Sampling
Andrew Roberts	10	Boart Longyear	SDD/ VAS Sampling
Steve Gross	10	Boart Longyear	SDD/ VAS Sampling

### 3. Work Performed Today:

Drilled and installed MW-215B at 7.5ft east of VAS-09. Material encountered consists of 0-24ft fill (foundry sand, paper, plastic, slag, metal wood) wet at 22ft, 24-33ft sand and gravel wet and loose. Very strong odor observed from 0-26ft, black lustrous liquid observed at 22-26ft, However, Sudan IV NAPL test did not indicate presence of NAPL. 33-36ft Till (silt, sand and gravel) moist and very dense, 36-38ft sand and gravel wet and loose, 38-44ft Till (silt, sand and gravel) moist and very dense, 44-52ft Sand and gravel wet and loose, 52-53.5ft Till (clay, silt, sand and gravel) moist and very dense, 53.5-57 sand and gravel, wet and loose. CRA did not screen soil sample with PID. Installed MW-215B at 52ft, set screen at 47-52ft bgs.

Drilled and installed MW-215A at 7.75ft North of MW-215B. Material encountered was similar to material observed in MW-215B. Installed MW-215A at 29ft, set screen at 19-29ft bgs.

### 4. Work Planned for the Next Day:

Pull casing from and grout VAS-26/MW-213, Start drilling and monitoring well installation at MW-218B

### 5. Comment(s) on Work Observed/Controversial Matters:

CRA plan was to install MW-215B at 54ft bgs with screen set from 49-54ft. However a till unit was encountered at 52-53.5ft in the borehole. The well was therefore installed at 52ft atop the till unit.

CRA indicated that monitoring well will not be installed at VAS-26/MW-213 location; the borehole already drilled is to be abandoned.

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

*th 20*  
**Date: 06/19/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 60** <sup>OF</sup> **85** <sup>OF</sup>  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	11	CH2M HILL	Oversight of CRA's sampling
Jason Close	11	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	11	CRA	Test Pit Excavation
Jeremy Teepen	11	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	11	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	11	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	11	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	11	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	11	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	11	CRA	Drilling, Logging of Cores and GW Sampling
Curtis McMillan	11	Petro Environmental	Test Pit Excavation
Jason Hammann	10	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA purged 4 volumes at a high flow to reduce turbidity and 7 volumes utilizing low flow protocols. The turbidity remained above 1000 NTU during sampling at BH-68-13. Then the well was sampled for VOC's and filtered PCB's (GW-38443-062013-SM-047). A peristaltic pump was used for this well.

-CRA collected equipment blank EB-38443-062013-SM-050 at 11:10 for VOC's and PCB's.

- CRA Drilled to 30 feet at BH-63-13, logging the lithology and collecting PID readings. Native soil was encountered at 10 feet. The water table was encountered at 25 feet. A composite soil sample from 25-27 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil VOC sample was collected at 23-25 feet (S-38443-062013-JC-020), a duplicate was also collected from this location (S-38443-061913-JC-015). 4 well volumes were purged at a high flow to reduce turbidity and 2.5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 11:37 (GW-38443-061913-SM-052). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-65-13, logging the lithology and collecting PID readings. Native soil was encountered at 10 feet. The water table was encountered at 24 feet. A composite soil sample from 24.1 – 26.1 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil sample was collected at 22.1-25.1 feet (S-38443-062013-JC-031) for VOC's. 1 well volume were purged at a high flow to reduce turbidity and 1.5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 14:26 (GW-38443-062013-SM-055). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-67-13, logging the lithology and collecting PID readings. Native soil was encountered at 23.5 feet. The water table was encountered at 23 feet. A composite soil sample was tested with a Sudan IV kit from 23-25 feet the tests did not indicate NAPL. PID readings of 131 ppm (2.5 feet), and 390 ppm (9 feet) were observed. Soil VOC samples were collected at 7-9 feet (S-38443-062013-JC-032), and 21-23 feet (S-38443-061813-JC-033). 2 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 17:02 (GW-38443-062013-SM-055). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-71-13, logging the lithology and collecting PID readings. Native soil was encountered at 7 feet. The water table was encountered at 23.3 feet. A composite soil sample from 23.3 – 25.3 was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A clay lens was encountered at 31.25-32.75 feet. All native soils except the listed clay lens were sand and gravel with some silt. A soil sample was collected at 21.5-23.5 feet (S-38443-062013-JT-025) for VOC's and PCB's. 3 well volumes were purged at a high flow to reduce turbidity and 6 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 15:00 (GW-38443-062013-SM-054). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-72-13, logging the lithology and collecting PID readings. Native soil was encountered at 6.25 feet. The water table was encountered at 20.75 feet. A composite soil sample from 20.75-22.75 was tested with a Sudan IV kit that indicated NAPL, a small blob of pink was floating in the water. A PID reading of 70.5 was observed at 24-26 feet. A soil VOC sample was collected at 18.75-20.75 feet (S-38443-061913-JT-026). 4 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 17:25 (GW-38443-062013-SM-056). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-73-13, logging the lithology and collecting PID readings. Native soil was encountered at 7.5 feet. The water table was encountered at 20.3 feet. A composite soil sample from 20.5-22.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil sample was collected from 18.5-20.5 (S-38443-061913-JT-024) feet for VOC's and PCB's. 2 well volumes were purged at a high flow to reduce turbidity and 7 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 11:55 (GW-38443-062013-SM-051). A peristaltic pump was used for this well.



**Work Performed Today Continued:**

- CRA Drilled to 26 feet at BH-74-13, logging the lithology and collecting PID readings. Native soil was encountered at 7.0 feet. The water table was encountered at 21 feet. A composite soil sample was collected from 21-23 feet the sample was tested with a Sudan IV kit that did not indicate NAPL. PID readings of 372 ppm (0-2 feet), 165 (2-4 feet) and 66.6 ppm (4-6 feet) were observed. Soil samples were collected from 0-2 feet (S-38443-061913-JT-022) and 19-21 feet (S-38443-062013-JT-023 ) for VOC's. 2 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's (GW-38443-062013-SM-048) and a duplicate was collected (GW-38443-062013-SM-049). A peristaltic pump was used for this well.

**3. Work Planned for the Next Day:**

- CRA will continue DPT drilling, logging and sampling. They will be boring holes excavating test pit trenches.

**4. Comment(s) on Work Observed/Controversial Matters:**

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by

## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/21/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 60 <sup>OF</sup> 89 <sup>OF</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	7	CH2M HILL	Oversight of CRA's sampling
Jason Close	11	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	9	CRA	Test Pit Excavation
Jeremy Teepen	8	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	8	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	11	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	11	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	9	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	8	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	11	CRA	Drilling, Logging of Cores and GW Sampling
Curtis McMillan	8	Petro Environmental	Test Pit Excavation
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA Drilled to 26 feet at BH-50B-13, logging the lithology and collecting PID readings. Native soil was encountered at 12 feet. The water table was encountered at 23 feet. A composite soil sample from 23-25 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. No groundwater samples were collected from this borehole.

- CRA Drilled to 60 feet at BH-51-13, logging the lithology and collecting PID readings. Native soil was encountered at 8.2 feet. The water table was encountered at 21.3 feet. A composite soil sample was tested with a Sudan IV kit from 21.3-23.3 feet the tests did not indicate NAPL. No significant PID readings were observed. The lithology from 8.2-60 feet was a combination of sand, gravel and silt. Soil VOC samples were collected at 0-2 feet (S-38443-062113-JT-027) and 19.7-21.3 feet (S-38443-062113-JT-028). 6 well volumes were purged at a high flow to reduce turbidity and 2 volumes utilizing low flow protocols. Then the well was sampled for VOC's at 17:02 (GW-38443-062113-SM-058). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-69-13, logging the lithology and collecting PID readings. Native soil was encountered at 6.5 feet. Saturated soils were encountered from 5-6 feet. The water table was encountered at 23 feet. Composite soil samples were collected from 5-6 feet and 23-25 feet were tested with a Sudan IV kit. The test collected from 5-6 feet that did not indicate NAPL. The test from 23-25 feet indicated NAPL, the water turned pale pink and there was a floating blob of pink. No significant PID readings were observed. A soil sample for VOCs and PCB's was collected at 21-23 feet (S-38443-062113-JC-035), a duplicate was collected at this location (S-38443-062113-JC-036). 3 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 17:30 (GW-38443-062113-SM-059). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-70-13, logging the lithology and collecting PID readings. Native soil was encountered at 5 feet. The water table was encountered at 22.5 feet. Composite soil samples were collected from 22.5-24.5 feet, 30.5-32.5 feet, and 33.6-35 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A Soil VOC sample was collected at 19-20 feet (S-38443-062113-JC-034). The soil sample was not collected from 20.5-22.5 due to lack of recovery. A clay lens was encountered from 32.5- 33.6 feet. 2 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's and filtered PCB's at 15:40 (GW-38443-062113-SM-057). A peristaltic pump was used for this well.

## 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/24/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 63** <sup>°F</sup> **91** <sup>°F</sup>  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	11	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Test Pit Excavation
Jeremy Teepen	0	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	10	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	11	CRA	Drilling, Logging of Cores and GW Sampling
Curtis McMillan	0	Petro Environmental	Test Pit Excavation
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA Drilled to 30 feet at BH-80-13, logging the lithology and collecting PID readings. Native soil was encountered at 24 feet. The water table was encountered at 24.5 feet. A composite soil sample was tested with a Sudan IV kit from 24.5-26.5 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 22.5-24.5 feet (S-38443-062413-JC-039). The well will be sampled on 6/25/13.

- CRA Drilled to 30 feet at BH-82-13, logging the lithology and collecting PID readings. Native soil was not encountered. The water table was encountered at 21 feet. A composite soil sample was tested with a Sudan IV kit from 21-23 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 19-21 feet (S-38443-062413-JC-039). The well will be sampled on 6/25/13.

- CRA Drilled to 30 feet at BH-83-13, logging the lithology and collecting PID readings. Native soil was encountered at 18.2 feet. The water table was encountered at 22.5 feet. A composite soil sample was tested with a Sudan IV kit from 22.2-24.2 feet the tests did not indicate NAPL. A PID reading of 117 ppm was observed at 7.5 feet. Soil VOC samples were collected at 5-7.5 feet (S-38443-062113-SM-030) and 20.2-22.2 feet (S-38443-062113-SM-041). 3 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's at 15:45 (GW-38443-062413-SM-061). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-86-13, logging the lithology and collecting PID readings. Native soil was encountered at 25 feet. The water table was encountered at 24.5 feet. A composite soil sample was tested with a Sudan IV kit from 24.5-26.5 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 22.5-24.5 feet (S-38443-062113-JC-038). The well will be sampled on 6/25/13.

- CRA Drilled to 30 feet at BH-88-13, logging the lithology and collecting PID readings. Native soil was encountered at 25.3 feet. The water table was encountered at 22 feet. Composite soil samples were collected from 12.5- 13.5 and 22-24 feet was tested with a Sudan IV kit. The sample collected from 12.5-13.5 feet was weakly positive with only the floating indicator turning pink. No significant PID readings were observed. A Soil VOC sample was collected at 18-20 feet (S-38443-062413-JC-037). 3 well volumes were purged at a high flow to reduce turbidity and 2 volumes utilizing low flow protocols. The well went dry during each volume and the sampler waited for it to recharge to continue purging. The turbidity remained over 500 NTU during sampling. The well was sampled for VOC's (GW-38443-062413-SM-060). A peristaltic pump was used for this well.

- CRA attempted to drill to 60 feet at BH-89-13, logging the lithology and collecting PID readings. Refusal was encountered at 40 feet. Native soil was encountered at 20 feet. The water table was encountered at 19.8 feet. A Sudan IV was not collected from this 20-22 feet because there was no recovery from 20-25 feet. A clay lens was encountered at 32.2 feet. A composite soil sample was tested with a Sudan IV kit from 30.2-32.2 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil VOC sample was collected at 18-20 feet (S-38443-062413-SM-029). 4 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's, naphthalene and filtered metals at 17:10 (GW-38443-062413-SM-062). A peristaltic pump was used for this well.

## 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

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Form Completed by

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## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/25/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 70 °F 91 °F**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	11	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Test Pit Excavation
Jeremy Teepen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	11	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	11	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

-CRA purged BH-80-13, 3 well volumes were purged at a high flow to reduce turbidity and 2 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A MSMSD was collected at this well.

-CRA purged BH-82-13, 4 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's.

-CRA purged BH-83-13, 2 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A duplicate was collected at this well.

- CRA Drilled to 60 feet at BH-75-13, logging the lithology and collecting PID readings. Native soil was encountered at 20 feet. Water was encountered at 15.25-18 feet. The water table was encountered at 22 feet. Composite soil samples were tested with Sudan IV kits from 15.25-17 feet and 22-24 feet the tests did not indicate NAPL. A PID reading of 66 ppm at 7.5 feet, 59.6 ppm at 6-8 feet. A clay layer was encountered from 31.75-41.5. 41.5-60 feet was a combination of sand, gravel and silt. Soil VOC samples were collected at 0-2 feet (S-38443-062513-JT-045) and 20-22 feet (S-38443-062513-JT-046). 2 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-76-13, logging the lithology and collecting PID readings. Native soil was encountered at 26 feet. The water table was encountered at 22.5 feet. A composite soil sample was tested with Sudan IV kits from 22.5 feet the test did not indicate NAPL. A PID reading of 70 ppm at 9 feet. Soil VOC samples were collected at 8-10 feet (S-38443-062513-JC-052) and 18-20 feet (S-38443-062513-JC-053). A sample will be collected from this well on 6/26/13.

- CRA Drilled to 30 feet at BH-77-13, logging the lithology and collecting PID readings. Native soil was encountered at 21 feet. The water table was encountered at 25feet. A composite soil sample was tested with a Sudan IV kit from 22-24 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 20-22feet (S-38443-062513-JT-045). 3 well volumes were purged at a high flow to reduce turbidity and 5 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-78-13, logging the lithology and collecting PID readings. Native soil was encountered at 20.2 feet. The water table was encountered at 22 feet. A composite soil sample was tested with a Sudan IV kit from 22-24 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 20-22 feet (S-38443-062513-JT-043) a duplicate was also collected here (S-38443-062513-JT-044). A sample will be collected from this well on 6/26/13.

- CRA Drilled to 60 feet at BH-85-13, logging the lithology and collecting PID readings. CRA indicated native soil at 40 feet. The water table was encountered at 22.5feet. Composite soil sample were tested with a Sudan IV kit from 12-13, 22.5-24.5, 46.5-48.5, 49-50, 50-52 and 55-57 feet the tests did not indicate NAPL. At 10.3 feet a PID reading of 83.1 ppm was observed. Clay layers were encountered 48.5-49.3 feet and 52-55 feet. Soil samples for VOCs were collected at 8-10feet (S-38443-062513-JC-040) and 18-20 feet (S-38443-062513-JC-051). 7 well volumes were purged at a high flow to reduce turbidity and 14 volumes utilizing low flow protocols. Then the well was sampled for VOC's, naphthalene and filtered metals. A duplicate sample was collected at this location. A peristaltic pump was used for this well.

## 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/26/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 73 <sup>OF</sup> 89 <sup>OF</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Test Pit Excavation
Jeremy Teepen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	10	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	10	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	0	Bloodhound	Utility Locate



## **2. Work Performed Today:**

-CRA purged BH-76-13, 4 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's, naphthalene and filtered metals.

-CRA collected an equipment blank prior to sampling BH-79.

- CRA Drilled to 30 feet at BH-33-13, logging the lithology and collecting PID readings. Native soil was encountered at 20.5 feet. The water table was encountered at 25 feet. A composite soil sample was tested with a Sudan IV kits from 25-27 feet the tests did not indicate NAPL. A PID reading of 80.3 ppm at 2-4 feet, 317 ppm at 4-6 feet, 82.8 ppm at 6-8 feet, 324 ppm at 8-10 feet, and 89.9ppm at 4-6 feet. A Soil VOC sample was collected at 22-25 feet, a duplicate was also collected here. This well will be sampled on 6/27/13.

- CRA Drilled to 60 feet at BH-84-13, logging the lithology and collecting PID readings. Native soil was encountered at 11 feet. Water was encountered at 11-11.8 feet. The water table was encountered at 21 feet. Composite soil samples were tested with Sudan IV kits from 11-13 feet and 21-22 feet the tests did not indicate NAPL. A PID reading of 98 ppm at 0-2 feet, 108 ppm at 2-4 feet and 48.3 at 4-6 feet. Clay layers were encountered from 31.5-32.5 and 36.75-47.75. The remaining native soil was a combination of sand, gravel and silt. Soil VOC samples were collected at 2-4 feet and 19-21 feet. 6 well volumes were purged at a high flow to reduce turbidity and 2.5 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-66-13, logging the lithology and collecting PID readings. Native soil was encountered at 22 feet. The water table was encountered at 24 feet. A composite soil sample was tested with a Sudan IV kit from 24-26 feet the test did not indicate NAPL. PID readings of 154 ppm at 2 feet, 66 ppm at 3 feet, 132 ppm at 5.5 feet, 392 at 14 feet, 169 at 7 feet, 492 at 10 feet, 570 at 10.5 feet 347 at 15.5 feet and 47 at 16.5 feet. Soil VOC and PCB samples were collected at 10-12 feet and 22-24 feet. A sample will be collected from this well on 6/27/13.

- CRA Drilled to 30 feet at BH-79-13, logging the lithology and collecting PID readings. Native soil was encountered at 22.5 feet. The water table was encountered at 23feet. A composite soil sample was tested with a Sudan IV kit from 23-25 feet the tests did not indicate NAPL. No significant PID readings were observed. Soil samples for VOCs were collected at 4-6 feet and 21-23 feet. 4 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-87-13, logging the lithology and collecting PID readings. They will continue boring to 60 feet on 6/27/13. Native soil has not been encountered. The water table was encountered at 22 feet. A composite soil sample was tested with a Sudan IV kit from 22-24 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 18-20 feet; a duplicate was also collected here. A sample will be collected from this well on 6/27/13.

## **3. Work Planned for the Next Day:**

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## **4. Comment(s) on Work Observed/Controversial Matters:**

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/28/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 63 <sup>0F</sup> 91 <sup>0F</sup>**  
Min
Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
OsaguonaOgbebor	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	9	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teeppen	9	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	9	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	9	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	9	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	5	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	9	CRA	Drilling, Logging of Cores and GW Sampling



## 2. Work Performed Today:

- CRA drilled to 30 feet at **BH-47-13**, logging the lithology and collecting PID readings. Native soil was encountered at 25 feet. The water table was encountered at 26.5 feet. A composite soil sample was tested with a Sudan IV kit from 26.5-28.5 feet the tests did not indicate NAPL. A PID reading of 1,455ppm was recorded at 4-6ft bgs.

- CRA drilled to 30 feet at **BH-35-13**, logging the lithology and collecting PID readings. Native soil was encountered at 25ft bgs. The water table was encountered at 26.5 feet. A composite soil sample was tested with a Sudan IV kit from 26.5-28.5 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected at 24.5-26.5 feet (S-38443-062813-JC-068). Temporary screen point (SP) was set in the borehole, 5 well volumes was purged at high flow rate and 4 well volume following low flow protocol before collecting Groundwater sample (GW-38443-062813-SM-083) for VOC analysis.

- CRA drilled to 30 feet at **BH-40-13**, logging the lithology and collecting PID readings. Native soil was encountered at 22.25 feet. The water table was encountered at 20.3 feet. A composite soil sample was tested with a Sudan IV kit from 20.3-22.3 feet the tests did not indicate NAPL. No significant PID readings were observed. Soil VOC samples were collected at 18-20 feet (S-38443-062813-JC-066 and 67(DUP)). A temporary SP set at 30ft bgs did not yield groundwater for purging and sample collection. CRA pulled SP and will set it deeper on Monday before attempting to collect groundwater sample again.

- CRA drilled to 30 feet at **BH-48-13**, logging the lithology and collecting PID readings. Native soil was encountered at 25 feet. The water table was encountered at 24.5 feet. A composite soil sample was tested with a Sudan IV kit from 24.5-26.5 feet the tests indicated weakly positive with only the floating indicator turning pink NAPL. A PID reading of 385ppm was recorded at 12ft bgs.

- CRA attempted to drill to 60 feet at **BH-93-13**, logging the lithology and collecting PID readings. Refusal was encountered at 30 feet. Native soil was not encountered. The water table was encountered at 18.5 feet. A composite soil sample was collected from 18.5-20.5 feet and tested with Sudan IV kit, the test did not indicate presence of NAPL. No significant PID readings were observed. A soil VOC sample was collected at 13-15 feet (S-38443-062813-JC-078). CRA will attempt to use dual tube drilling technology to try to get to proposed total depth of 60ft bgs before attempting to collect groundwater sample 5 feet into the water table in the borehole.

## 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA could not get to the 60-foot target depth at the BH-93-13 location. CRA has proposed to use dual tube drilling technology to probe to the target depth at the location. The dual tube drilling will be attempted on Monday 07/01/13.

Osaguona Ogbebor

Form Completed by



**DAILY REPORT**

Project: South Dayton  
Dump (SDD)

Project #: 419879.FI.01

Date: 7/1/2013

Weather: Mostly Cloudy

Precip: None

Temp: 68 <sup>OF</sup> 84 <sup>OF</sup>  
Min Max

**1. Personnel and Area(s) of Responsibility:**

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Test Pit Excavation
Jeremy Teepen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	0	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	10	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA drilled to 35 feet at BH-31-13, logging the lithology and collecting PID readings. Native soil was encountered at 15.5 feet. The water table was encountered at 28.5 feet. From 15-26 feet a clayey silt was encountered. A composite soil sample was tested with a Sudan IV kit from 28.5-30.5 feet, the test did not indicate NAPL. A PID reading of 111 ppm was observed at 20 feet. A soil sample for VOCs was collected at 18-20 feet a duplicate was also collected here. 5 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA drilled to 60 feet at BH-36-13, logging the lithology and collecting PID readings. Native soil was encountered at 22 feet. Water was encountered at 20-21.5 feet. The water table was encountered at 32 feet. Composite soil samples were tested with Sudan IV kits from 20-22 feet and 32-34 feet the tests did not indicate NAPL. PID readings of 1,758 ppm at 0-2 feet, 578 ppm at 2-4 feet, 1,327 at 4-6 feet, 124 ppm at 6-8 feet and 89.4 ppm at 8-10 feet. Native soil was a combination of sand, gravel and silt. A soil VOC sample was collected at 30-32 feet and at 0-2 ft. This well will be sampled on 7/2/13.

- CRA drilled to 35 feet at BH-39-13, logging the lithology and collecting PID readings. Water was encountered from 21-28 feet. Native soil was encountered at 28.5 feet. The water table was encountered at 30 feet. Composite soil samples were tested with Sudan IV kits from 21-23 feet and 30-32 feet the tests did not indicate NAPL. No significant PID readings were observed. A Soil VOC sample was collected 28-30 feet. 5 well volumes were purged at a high flow to reduce turbidity and 3 volumes utilizing low flow protocols. Then the well was sampled for VOC's. A peristaltic pump was used for this well.

- CRA drilled to 60 feet at BH-42-13, logging the lithology and collecting PID readings. Native soil was encountered at 16.1 feet. Water was encountered at 11.5-12 feet. The water table was encountered at 22 feet. Composite soil samples were tested with Sudan IV kits from 11.5-13 feet and 22-24 feet the tests did not indicate NAPL. PID readings of 1,237 ppm at 2-4 feet 329 at 4-6 feet, 108 ppm at 6-8 feet and 63.4 ppm at 8-10 feet. Native soil was a combination of sand, gravel and silt. Soil VOC samples were collected at 2-4 feet and 20-22 feet. A duplicate was collected from the 2-4 foot interval as well. Sampling of this well is under discussion.

- CRA drilled to 35 feet at BH-43-13, logging the lithology and collecting PID readings. Water was encountered from 20-21.5 feet. Native soil was encountered at 22 feet. The water table was encountered at 28.8 feet. Composite soil samples were tested with Sudan IV kits from 28.8-30.8 feet and 30.8-32.8 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil VOC sample was collected at 26.8-28.8 feet. Sampling of this well is under discussion.

-CRA started drilling at BH-44-13. They discontinued drilling at 16:30 and 40 feet due to inclement weather.

## 3. Work Planned for the Next Day:

- On Monday July 8<sup>th</sup> CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

-BH-40-13, BH-42-13 and BH-43-13 are not producing water. CRA has not sampled the groundwater at these locations.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 7/2/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 68 <sup>OF</sup> 84 <sup>OF</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Test Pit Excavation
Jeremy Teeppen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	0	CRA	Drilling, Logging of Cores and GW Sampling
Scott Kippen	10	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	4	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA drilled to 35 feet at BH-32-13, logging the lithology and collecting PID readings. Native soil was encountered at 27.5 feet. The water table was encountered at 28.5 feet. From 27.5-28.3 feet a clayey silt was encountered. A composite soil sample was tested with a Sudan IV kit from 28.5-30.5 feet the tests did not indicate NAPL. No significant PID readings were observed. A soil sample for VOCs was collected from this boring. 5 well volumes were purged at a high flow to reduce turbidity and 4 volumes utilizing low flow protocols. Then the well was sampled for VOC's and a duplicate was collected here. A peristaltic pump was used for this well.

- CRA drilled to 60 feet at BH-37-13, logging the lithology and collecting PID readings. Native soil was encountered at 22 feet. Water was encountered at 16-16.25 feet and 20.5-22 feet. The water table was encountered at 27 feet. Composite soil samples were tested with Sudan IV kits from 16-18 feet, 20.5-22.5 feet and 25-27 feet the tests did not indicate NAPL. No significant PID readings were observed. A clay layer was encountered from 31-32 feet. The remaining native soil was a combination of sand, gravel and silt. A soil VOC sample was collected at 25-27 feet. This well will be sampled on 7/8/13.

- CRA drilled to 60 feet at BH-44-13, logging the lithology and collecting PID readings. Native soil was encountered at 25.5 feet. The water table was encountered at 37.5 feet. A composite soil sample was tested with Sudan IV kits the tests did not indicate NAPL. PID readings of 205 ppm at 0-2 feet, 1390 ppm at 2-4 feet, 254 at 4-6 feet, 534 ppm at 6-8 feet and 66.7 ppm at 8-10 feet. Native soil was a combination of sand, gravel and silt. A soil sample was collected for VOCs and PCBs at 2-4 feet and 35.5-37.5. This well will be sampled on 7/8/13.

- CRA drilled to 35 feet at BH-46-13, logging the lithology and collecting PID readings. Water was encountered from 19.8-20.4 feet. The water table was encountered at 30 feet. PID readings of 236.2 ppm at 22 feet, 397 ppm at 25.5 feet, 222 at 28 feet and 234 ppm at 30 feet. The composite soil sample tested with a Sudan IV kit from 19.8-20.8 did not indicate NAPL. The composite soil sample tested with a Sudan IV kit from 30-31.5 had a pink film on the surface of the water, and 5 pinpricks per inch of red dye in both the liquid and the soil, this indicated NAPL. The composite soil sample tested with a Sudan IV kit from 32.5-34.5 had a pink film on the surface of the water, and 12 pinpricks per inch of red dye in both the liquid and the soil, this indicated NAPL. This well will be sampled on 7/8/13.

- CRA drilled to 35 feet at BH-46B-13, logging the lithology and collecting PID readings. This bore hole is a step out for BH-46-13. Native soil was encountered at 19.5 feet. The water table was encountered at 28 feet. A composite soil sample was tested with Sudan IV kit from 28-30 feet the tests did not indicate NAPL. No significant PID readings were observed. A Soil VOC sample was collected at 26.8-28.8 feet. This well will be sampled on 7/8/13.

## 3. Work Planned for the Next Day:

- On Monday July 8<sup>th</sup> CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting groundwater samples and soil samples.

## 4. Comment(s) on Work Observed/Controversial Matters:

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 07/08/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 73 <sup>OF</sup> 86 <sup>OF</sup>**  
**Min**
**Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
OsaguonaOgbebor	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	9	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teepen	9	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cody	9	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hite	9	CRA	Drilling, Logging of Cores and GW Sampling

### 2. Work Performed Today:

- CRA Drilled to 35 feet at **BH-48-13**, logging the lithology and collecting PID readings. Native soil was encountered at 21 feet. The water table was encountered at 29 feet. A composite soil sample was tested with a Sudan IV kit from 29-31 feet, the test did not indicate NAPL. No significant PID readings were observed. Temporary screen point (SP) was set at 34 feet bgs, 5 well volumes were purged at high flow rate and 5 well volumes following at low flow protocol before collecting groundwater sample (GW-38443-070813-JT-099) for VOCs, dissolved metals and TPH analysis.

- CRA Drilled to 50 feet at **BH-90-13**, logging the lithology and collecting PID readings. Native soil was encountered at 38.5 ft bgs. The water table was encountered at 28.5 feet. A composite soil sample was tested with a Sudan IV kit from both the 14-15 feet and 28.5-30.5 foot intervals; both intervals did not indicate NAPL. No significant PID readings were observed. Soil sample (S-38443-070813-JC-088) was collected from 26.5-28.5 feet, sample submitted to the lab for VOC analysis. Temporary screen point (SP) was set at 33.5 feet bgs, the temporary well will be sampled 07/09/13.

- CRA collected groundwater sample (GW-38443-070813-JT-098) from SP set at 37 feet bgs in **BH-42-13**. Sample was submitted to the lab for VOC analysis.

### 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes collecting soil and groundwater samples.

### 4. Comment(s) on Work Observed/Controversial Matters:

-CRA set screen point (SP) for BH-42-13 at 32-37 feet bgs because according to the CRA representative, CRA could not collect grab groundwater samples from SP's set at shallower intervals in the area. CH2M HILL suggested to CRA to measure depth to groundwater in well MW-228 located approximately 75 ft south of the BH-42-13 location. Depth to groundwater in MW-228 was measured at 25.5 ft bgs that is consistent with the original boring log. **This 32-37 foot bgs sample may not represent the top of the water column.**

The protector cover for MW-228 is bent and the upper 3 feet of the PVC casing was unscrewed from the well. CRA was able to get water level meter probe down the well despite the damage.



Osaguona Ogbebor

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Form Completed by

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## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 07/09/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 73** <sup>0F</sup> **91** <sup>0F</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
OsaguonaOgbebor	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	9	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teepen	9	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cody	9	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hite	9	CRA	Drilling, Logging of Cores and GW Sampling

### 2. Work Performed Today:

- CRA drilled to 50 feet at **BH-92-13**, logging the lithology and collecting PID readings. Native soil was encountered at 30.5 ft bgs. The water table was encountered at 20.8 ft bgs. A composite soil sample was collected from the following intervals and tested with a Sudan IV kit: 15-17 feet; 20.8-22.8 feet, 41-43 feet and 44.6-46.6 feet. No tested intervals except one indicated presence of NAPL: **20.8-22.8 feet interval gave a slightly positive presence of NAPL**. No significant PID readings were observed. Soil sample (S-38443-070913-JC-089 and duplicate sample (S-38443-070913-JC-090) were collected from the 18.8-20.8 foot interval, and the sample submitted to the lab for VOC analysis. Grab groundwater sample (GW-38443-070913-JT-102) was collected from a temporary screen point (SP) set at 26 feet bgs, and the groundwater sample was sent to the lab for VOCs analysis.

- CRA drilled to 30-50 feet at **BH-93-13**, logging the lithology and collecting PID readings. Native soil was encountered at 35 ft bgs. The water table was encountered at 18.5 ft bgs. A composite soil sample was tested with a Sudan IV kit from the 39-41foot and 45-47foot intervals, both intervals did not indicate NAPL. No significant PID readings were observed. Grab groundwater sample (GW-38443-070913-JT-104) was collected from an SP set at 24 feet bgs, and the groundwater sample was sent to the lab for VOCs analysis.

- CRA collected groundwater sample (GW-38443-070913-JT-101) from SP set at 33.5feet bgs in **BH-90-13**. Sample was submitted to the lab for VOC analysis.

- CRA installed SP at 33.5ft (comparable depth to screen interval for MW-210B) adjacent to BH-18-13. CRA collected groundwater sample GW-38443-070913-JT-105 and GW-38443-070913-JT-106 (duplicate) from the temporary well and sent the samples to the lab for VOCs, dissolved metals and naphthalene.

### 3. Work Planned for the Next Day:

- CRA will install and sample Screen points around BH-16, 17 and 18.

4. **Comment(s) on Work Observed/Controversial Matters:**

- CRA indicated that site contaminants of concern (COCs) were not detected in grab groundwater samples previously collected from BH-16-13, BH-17-13 and BH18-13. CRA will install and sample additional temporary wells close to the original boring locations. The temporary wells will be screened at 33.5ft (screened interval for MW-210B).

Osaguona Ogbebor

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Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 07/10/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 73 <sup>OF</sup> 91 <sup>OF</sup>**  
Min
Max

**1. Personnel and Area(s) of Responsibility:**

Name of Personnel	Hours	Employer	Location/Work Description
OsaguonaOgbebor	9	CH2M HILL	Oversight of CRA's activities
Jason Close	9	CRA	Grab Groundwater Sampling and Well bail down
Jeremy Teepen	9	CRA	Grab Groundwater Sampling and Well bail down
Pat Cody	5	CRA	Grab Groundwater Sampling and Well bail down
Rick Hite	5	CRA	Grab Groundwater Sampling and Well bail down

**2. Work Performed Today:**

- CRA installed screen points at 33.5ft (comparable depth to screen interval for MW-210B) by BH-17-13 and BH-16-13. CRA collected groundwater sample GW-38443-071013-JT-107 and GW-38443-071013-JT-108 respectively from each well. The samples were submitted to the lab for VOCs analysis.
- CRA attempted bail down test (for NAPL) in MW-219 using monsoon submersible pump, but were unsuccessful in achieving substantial drawdown in the water level.

**3. Work Planned for the Next Day:**

- CRA will attempt another bail down test in MW-219 using grundfos pump.

**4. Comment(s) on Work Observed/Controversial Matters:**

- CRA conducted bail down test in MW-219, following is information about the baildown test  
 Depth to water before test—24.01ft BTOC  
 Pumping rate —0.85gal/min  
 Pump time ----60 minutes(1hr)  
 Final depth to Water—24.09ft BTOC  
 Total volume purge—55gals

Osaguona Ogbebor

Form Completed by

## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 07/11/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 63** <sup>OF</sup> **81** <sup>OF</sup>  
Min Max

**1. Personnel and Area(s) of Responsibility:**

Name of Personnel	Hours	Employer	Location/Work Description
Osaguona Ogbebor	7	CH2M HILL	Oversight of CRA's activities
Jason Close	7	CRA	Well bail down
Jeremy Teepen	7	CRA	Well bail down

**2. Work Performed Today:**

- CRA completed a bail (pump)down test in MW-219 using monsoon submersible pump *grindfos?*

**3. Work Planned for the Next Day:**

- None.

**4. Comment(s) on Work Observed/Controversial Matters:**

- CRA conducted bail down test in MW-219, following is information about the bail-down test

Depth to water before test—23.8ft BTOC

Max. Pumping rate —2.8gal/min

Pump time ----55 minutes(1hr)

Final depth to Water—27.15ft BTOC

Max Drawdown ---- 3.35ft

Max thickness of LNAPL observed—0.11ft

Total volume purge—110gals

Osaguona Ogbebor

Form Completed by



## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 419879.FI.01

Date: 06/10/2013

Weather: Mostly Cloudy

Precip: Rain

Temp: 68 <sup>OF</sup> 76 <sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	8	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	8	CH2M HILL	Oversight of CRA's sampling
Susan Kear	8	CH2M HILL	Oversight of CRA's sampling
Madelyn Smith	8	Ohio EPA	Oversight of CRA's sampling
Laura Marshall	8	Ohio EPA	Oversight of CRA's sampling
J Close	8	CRA	Drilling, Logging of Cores and GW Sampling
P Cady	8	CRA	Drilling, Logging of Cores and GW Sampling
D Perez	8	CRA	Drilling, Logging of Cores and GW Sampling
D Boyle	8	CRA	Drilling, Logging of Cores and GW Sampling
R Hitia	8	CRA	Drilling, Logging of Cores and GW Sampling
S Melesosky	8	CRA	Drilling, Logging of Cores and GW Sampling

**2. Work Performed Today:**

- CRA Drilled to 30 feet at BH-9-13, logging the lithology and collecting PID readings. Native soil was encountered at 10.3 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 25 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. PID readings of 113 ppm at 2 feet and 320 at 5.5 feet were observed while logging the litholog of the bore hole. A temporary well was installed from 20.5 to 21.5 ft bgs and will be sampled on 6/11/13.

- CRA Drilled to 30 feet at BH-10-13, logging the lithology and collecting PID readings. Native soil was encountered at 11.5 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 25 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed.

**3. Work Planned for the Next Day:**

- CRA will continue to DPT drilling, logging and sampling.



4. **Comment(s) on Work Observed/Controversial Matters:**

-CRA did not have the current work plan.

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

-CRA is using a "mechanical bladder pump" for groundwater sampling, which is basically a watterra pump. The SOP indicates the use of a peristaltic pump.

Susan Kear

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Form Completed by

## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/10/2013**

**Weather: Mostly Cloudy**

**Precip: Rain**

**Temp: 68 °F 76 °F**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	3	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	3	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	10	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teeppen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	10	CRA	Drilling, Logging of Cores and GW Sampling
Bob Bonsal	1	CRA	Deliver additional drill rig
Ray Garza	1	CRA	Deliver additional drill rig



## 2. Work Performed Today:

- CRA purged 5 well volumes (3,845 ml) from the temporary well at BH-09-13 with a Geoprobe 6120 pump. A sample, GW-38443-061113-GL-001, for VOC's was collected at 10:06.

- CRA installed a temporary well at BH-10-13 from 21.5 to 25.5 ft bgs. 3.5 well volumes were purged (2,690ml). Then a sample for VOC's was collected at 12:17 (GW-38443-061113-GL-003). The Geoprobe 6120 pump was used on this well. A rinse blank was collected for the mechanical bladder pump.

- CRA Drilled to 30 feet at BH-11-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.8 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. The well was sampled for VOC, filtered metals, and naphthalene at 13:06 (GW-38443-061113-GL-003). The Geoprobe 6120 pump was used on this well.

- CRA Drilled to 26 feet at BH-12-13, logging the lithology and collecting PID readings. Native soil was encountered at 10.0 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 25 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. 7 well volumes were purged (5,382ml). Then the well was sampled for VOC's at 16:50 (GW-38443-061113-SM-006). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-13-13, logging the lithology and collecting PID readings. Native soil was encountered at 10.0 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. The well will be sampled on 6/12/13.

- CRA Drilled to 26 feet at BH-14-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.5 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. 5 well volumes were purged (3,845ml). Then the well was sampled for VOC's at 16:20 (GW-38443-061113-GL-005). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-16-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.7 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. The well will be sampled on 6/12/13.

## 3. Work Planned for the Next Day:

- CRA will continue to DPT drilling, logging and sampling.

4. **Comment(s) on Work Observed/Controversial Matters:**

-CRA now has a copy of the current work plan (see comment from yesterday).

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan, including locations that have not indicated petroleum impacts in the past.

- For BH-09-13, BH-10-13 and BH-11-13CRA used a Geoprobe 6120 pump per the OUI Data Gap work plan (not discussed in the SOP though). Will switch to peristaltic pumps from now on after discussion with USEPA.

Susan Kear

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Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/12/2013**

**Weather: Partly Cloudy**

**Precip: None**

**Temp: 72 °F 91 °F**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	3	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	10	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teepen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	10	CRA	Drilling, Logging of Cores and GW Sampling



## 2. Work Performed Today:

- CRA purged 5.5 well volumes (4,229 ml) from the temporary well at BH-13-13 with a peristaltic pump. A sample, GW-38443-061213-SM-007, for VOC's was collected at 8:57.

- CRA purged 5 well volumes (3,844.5 ml) from the temporary well at BH-16-13 with a peristaltic pump. A sample, GW-38443-061213-GL-008 and GW-38443-061213-GL-009, was collected for VOC's, the sample times are 9:55 and 10:00 respectively.

- CRA Drilled to 26 feet at BH-07-13, logging the lithology and collecting PID readings. Native soil was encountered at 11.0 feet. The water table was encountered at 21 feet. A composite soil sample from 21.5 – 23.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. 5 well volumes were purged (3,845 ml). Then the well was sampled for VOC's at 11:57 (GW-38443-061213-GL-011). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-08-13, logging the lithology and collecting PID readings. Native soil was encountered at 11 feet. The water table was encountered at 21.5 feet. Three composite soil samples were collected from 21.5 – 23.5 feet, 33 feet, and 45-47 feet these samples were tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed in the boring. A temporary well was installed from 22.5 to 26.5 ft bgs. Temporary well will be sampled on 6/13/13.

- CRA Drilled to 26 feet at BH-15-13, logging the lithology and collecting PID readings. Native soil was encountered at 11.25 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. 5 well volumes were purged (6,920 ml). (3,845 ml). Then the well was sampled for VOC's at 13:17 (GW-38443-061213-GL-013). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-17-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.8 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. 9 well volumes were purged (6,920 ml). Then the well was sampled for VOC's at 10:51 (GW-38443-061213-SM-010). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-18-13, logging the lithology and collecting PID readings. Native soil was encountered at 10.5 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 21.5 to 25.5 ft bgs. 6.5 well volumes were purged (4,998 ml). Then the well was sampled for VOC, filtered metals, and naphthalene at 12:53 (GW-38443-061213-SM-012). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-19-13, logging the lithology and collecting PID readings. Native soil was encountered at 10.25 feet. The water table was encountered at 18.25 feet. A composite soil sample from 18.25– 20.25 feet was tested with a Sudan IV kit that did not indicate petroleum NAPL. No significant PID readings were observed. A temporary well was installed from 19.25 to 23.25 ft bgs. Temporary well will be sampled on 6/13/13.

## 3. Work Planned for the Next Day:

- CRA will continue to DPT drilling, logging and sampling.



4. **Comment(s) on Work Observed/Controversial Matters:**

- CH2M HILL asked whether CRA was completing the deep soil borings in locations previously not logged as shown on existing cross-sections, so they can fill in data gaps and maintain a spatial distribution of the deep borings per the work plan. CRA indicated that they spaced them out without consideration of existing cross-sections.

- Discussions with Greg Lewis in the field indicate that property access to Parcel 5171 was not secured until this day, and that the landowner did "not want any oversight" people because it was "wasting money." It appears that CRA has gained access and CH2M HILL will closely monitoring the situation for potential conflict with the land owner.

Susan Kear

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Form Completed by

## DAILY REPORT

Project: South Dayton  
Dump (SDD)

Project #: 419879.FI.01

Date: 06/13/2013

Weather: Mostly Sunny

Precip: Storms 8-9:25

Temp: 68 <sup>OF</sup> 81 <sup>OF</sup>  
Min Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	11	CH2M HILL	Oversight of CRA's sampling
Jason Close	12	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	12	CRA	Drilling, Logging of Cores and GW Sampling
Jeremy Teepen	12	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	12	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	12	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	12	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	12	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	12	CRA	Drilling, Logging of Cores and GW Sampling
Nate Ziegler	10	CRA	Utility Locate
Jason	10	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA purged 4.5 well volumes (3,460 ml) from the temporary well at BH-08-13 with a peristaltic pump. A sample, GW-38443-061313-GL-014, was collected for VOC's, the sample time was 10:21.
- CRA purged 5 well volumes (3,8445ml) from the temporary well at BH-19-13 with a peristaltic pump. A sample, GW-38443-061313-SM-015, for VOC's was collected at 11:13.
- CRA Drilled to 27 feet at BH-01-13, logging the lithology and collecting PID readings. Native soil was encountered at 6.6 feet. The water table was encountered at 21.5 feet. A composite soil sample from 21.5 – 23.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. 7 well volumes were purged (5,382ml). Then the well was sampled for VOC's, naphthalene and filtered metals at 13:00 (GW-38443-061313-SM-016). A peristaltic pump was used for this well.
- CRA Drilled to 60 feet at BH-03-13, logging the lithology and collecting PID readings. Native soil was encountered at 11.31 feet. The water table was encountered at 21.75 feet. Three composite soil samples were collected from 21.75 – 23.75 feet, 31.5-33.5 feet, and 35.5 - 37.5 feet these samples were tested with a Sudan IV kit that did not indicate NAPL. The glacial till layer was encountered from 33.5 to 35.5. At 40.66 to 42.1 feet a positive Sudan IV kit indicated NAPL, the PID reading was 637 ppm and black staining of the sand and gravel was present. From 50 to 52 feet black staining of the sand and gravel was present however it did not trigger a PID reading. Till was encountered again from 59-60 feet. The temporary well at this location will be installed on 6/14/13.
- CRA Drilled to 60 feet at BH-05-13, logging the lithology and collecting PID readings. Native soil was encountered at 21 feet. The water table was encountered at 20 feet. Three composite soil samples were collected from 20– 22 feet, 31-32 feet, and 39.25 to 40.25 feet these samples were tested with a Sudan IV kit that did not indicate NAPL. Glacial till was encountered from 32-39.2 feet. Sudan IV kits tested positive for NAPL at 53-55 feet, and staining was present from 55-57 feet. The following is a record of PID concentrations at BH-05-13: 51 feet 27 ppm, 54.5 feet 833 ppm , 56 feet 407 and 60 feet 123 ppm. The temporary well at this location will be installed on 6/14/13.
- CRA Drilled to 26 feet at BH-06-13, logging the lithology and collecting PID readings. Native soil was encountered at 16.5 feet. The water table was encountered at 21 feet. A composite soil sample from 21 – 23 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A temporary well was installed from 22 to 26 ft bgs. 5 well volumes were purged (3,8445ml). Then the well was sampled for VOC's at 13:52 (GW-38443-061313-GL-017). A peristaltic pump was used for this well.

## 3. Work Planned for the Next Day:

- CRA will continue to DPT drilling, logging and sampling.

4. **Comment(s) on Work Observed/Controversial Matters:**

Susan Kear

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Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/14/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 68 <sup>OF</sup> 81 <sup>OF</sup>**  
**Min**
**Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	9	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	9	CRA	Utility Locate
Jeremy Teepen	9	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	9	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	9	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	9	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	9	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	9	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	9	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	9	Bloodhound	Utility Locate

**2. Work Performed Today:**

- CRA purged 3.5 well volumes (2,691 ml) from the temporary well at BH-05-13 with a peristaltic pump. A sample, GW-38443-061413-SM-019, was collected for VOC's, the sample time was 9:58.
- CRA collected an equipment blank from one of the Geoprobe screens that was used on site.
- CRA purged 4.5 well volumes (3,460 ml) from the temporary well at BH-03-13 with a peristaltic pump. A sample, GW-38443-061413-SM-020, for VOC's was collected at 10:43.
- CRA Drilled to 26 feet at BH-02-13, logging the lithology and collecting PID readings. Native soil was encountered at 7 feet. The water table was encountered at 20.5 feet. A composite soil sample from 20.5 – 22.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. 8 well volumes were purged (6,151ml). Then the well was sampled for VOC's, naphthalene and filtered metals at 13:00 (GW-38443-061413-SM-021). A peristaltic pump was used for this well.
- CRA Drilled to 25 feet at BH-04-13, logging the lithology and collecting PID readings. Native soil was encountered at 11 feet. The water table was encountered at 20.3 feet. A composite soil sample from 20.3 – 22.3 feet was tested with a Sudan IV kit that did not indicate NAPL. 7.5 well volumes were purged (5,767ml). Then the well was sampled for VOC's, naphthalene and filtered metals at 15:10 (GW-38443-061413-SM-022). A peristaltic pump was used for this well.

**3. Work Planned for the Next Day:**

- CRA will continue to DPT drilling, logging and sampling.

**4. Comment(s) on Work Observed/Controversial Matters:**

- CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/17/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 73 <sup>0F</sup> 87 <sup>0F</sup>**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	9	CH2M HILL	Oversight of CRA's sampling
Jason Close	9	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	0	CRA	Utility Locate
Jeremy Teepen	9	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	9	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	9	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	9	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	9	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	9	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	9	CRA	Drilling, Logging of Cores and GW Sampling
Jason Hammann	9	Bloodhound	Utility Locate



**2. Work Performed Today:**

- CRA Drilled to 25 feet at BH-20-13, logging the lithology and collecting PID readings. Native soil was encountered at 10 feet. The water table was encountered at 19.5 feet. A composite soil sample from 19.5 – 21.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. 9 well volumes were purged (6,920ml). Then the well was sampled for VOC's at 11:37 (GW-38443-061413-SM-023), a duplicate was collected from this well at 11:40 (GW-38443-061413-SM-024). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-21-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.5 feet. The water table was encountered at 18.25 feet. A composite soil sample was tested with a Sudan IV kit that did not indicate NAPL. From 9.5-60 feet the lithology was sand and gravel. 11 well volumes were purged (8,458ml). Then the well was sampled for VOC's at 14:15 (GW-38443-061413-SM-025). The turbidity on this well remained above 1000 NTU during sampling. A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-22-13, logging the lithology and collecting PID readings. Native soil was encountered at 10 feet. The water table was encountered at 20.4 feet. A composite soil sample from 20.4 – 22.4 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. 11 well volumes were purged (8,458ml). Then the well was sampled for VOC's, naphthalene and filtered metals at 16:00 (GW-38443-061413-SM-026). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-23-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.4 feet. The water table was encountered at 19.5 feet. A composite soil sample from 19.5 – 21.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. From 9.4-60 feet the lithology was sand and gravel. This well will be sampled on 6/18/13.

- CRA Drilled to 25 feet at BH-24-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.7 feet. The water table was encountered at 19.6 feet. A composite soil sample from 19.6 – 21.6 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. This well will be sampled on 6/18/13.

- CRA Drilled to 26 feet at BH-25-13, logging the lithology and collecting PID readings. Native soil was encountered at 8.2 feet. The water table was encountered at 20.75 feet. A composite soil sample from 20.75 – 22.75 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. This well will be sampled on 6/18/13.

**3. Work Planned for the Next Day:**

- CRA will continue DPT drilling, logging and sampling. They will be boring holes 49-56 on Tuesday and excavating test pit trenches near areas 4 and 5.

**4. Comment(s) on Work Observed/Controversial Matters:**

-CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/18/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 70 <sup>°F</sup> 87 <sup>°F</sup>**  
Min
Max

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	0	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	10	CH2M HILL	Oversight of CRA's sampling
Jason Close	10	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	10	CRA	Test Pit Excavation
Jeremy Teeppen	10	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	10	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	10	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	10	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	10	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	10	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	10	CRA	Drilling, Logging of Cores and GW Sampling
Curtis McMillan	10	Petro Environmental	Test Pit Excavation
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA purged 8 (6,151 ml) well volumes at BH-23-13. Then the well was sampled for VOC's at 10:30 (GW-38443-061813-SM-031). The turbidity remained at 345 NTU during sampling. A peristaltic pump was used for this well.

- CRA purged 8 (6,151 ml) well volumes at BH-24-13. Then the well was sampled for VOC's at 9:05 (GW-38443-061813-SM-027) and a duplicate was collected at 9:10 (GW-38443-061813-SM-028). A peristaltic pump was used for this well.

- CRA purged 9 (6,920ml) well volumes at BH-25-13. Then the well was sampled for VOC's, Naphthalene and filtered metals at 9:06 (GW-38443-061813-SM-029). The turbidity remained at 1000+ NTU during sampling. A peristaltic pump was used for this well.

-CRA collected equipment blank EB-38443-061813-SM-030

- CRA Drilled to 30 feet at BH-49-13, logging the lithology and collecting PID readings. Native soil was encountered at 19.5 feet. Saturation was encountered at 15-16 feet, but the water table was thought to be encountered at 21.5 feet. From 29.1 – 30 feet a sandy clay with trace fine gravel transitioning from orange to gray. A composite soil sample from 21.5 – 23.5 feet and 27.1-29.1 were tested with a Sudan IV kits that did not indicate NAPL. No significant PID readings were observed. 7 well volumes were purged (5,382ml). Then the well was sampled for VOC's Naphthalene, TPH and filtered metals at 12:00 (GW-38443-061813-SM-032). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-50-13, logging the lithology and collecting PID readings. Native soil was encountered at 18.8 feet. The water table was encountered at 24.5 feet. A composite soil sample from 24.5 – 26.5 was tested with a Sudan IV kit that did not at first indicate NAPL, then later had a "paper thin" ring of red around the liquid's edge on the bottle. A PID reading of 171 ppm at 25.5 feet was observed. This bore hole did not require groundwater sampling.

- CRA Drilled to 26 feet at BH-53-13, logging the lithology and collecting PID readings. Saturation was encountered from 6 – 7 feet, but the water table was thought to be encountered at 21 feet. Native soil was encountered at 26 feet. Composite soil sample were tested with a Sudan IV kit from 6-8 feet and 21-23 feet the tests did not indicate NAPL. PID readings of 3,442 ppm (0-2 feet), 132 ppm (2-4 feet), 102 ppm (4-6 feet) were observed. Soil VOC samples were collected at 0-2 feet (S-38443-061813-JT-001), and 19-21 feet (S-38443-061813-JT-002). 10 well volumes were purged (7,689ml). Then the well was sampled for VOC's at 13:20 (GW-38443-061813-SM-034). A peristaltic pump was used for this well.

- CRA Drilled to 26 feet at BH-54-13, logging the lithology and collecting PID readings. Saturation was encountered from 10-11.5 feet, but the water table was thought to be encountered at 20.5 feet. Native soil was encountered at 26 feet. A PID reading of 276 ppm (4-6 feet) was observed. Soil VOC samples were collected at 4-6 feet (S-38443-061813-JT-003), and 18.5-20.5 feet (S-38443-061813-JT-003). A composite soil sample from 20.5 – 22.5 was tested with a Sudan IV kit that did not indicate NAPL. 7 well volumes were purged (5,382ml). Then the well was sampled for VOC's at 14:03 (GW-38443-061813-SM-033). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-56-13, logging the lithology and collecting PID readings. Native soil was encountered at 10 feet. The water table was encountered at 23 feet. No significant PID readings were observed. A soil VOC sample was collected at 21-23 feet (S-38443-061813-JC-013). A composite soil sample from 24-26 was tested with a Sudan IV kit that did not indicate NAPL. This well will be sampled on 6/19/13.

- CRA Drilled to 60 feet at BH-57-13, logging the lithology and collecting PID readings. Native soil was encountered at 6.5 feet. The water table was encountered at 23 feet. No significant PID readings were observed. A soil VOC sample was collected at 21-23 feet (S-38443-061813-JT-005). A composite soil sample from 23-25 was tested with a Sudan IV kit that did not indicate NAPL. This well will be sampled on 6/19/13.



### Work Performed Today Continued:

-CRA excavated test pit TT-25-13. At 10.5 feet deep and 7.5 feet from south end of trench an area of **sheet metal** was encountered. At 18 feet deep and 9.5 feet from the south end of the trench a **drum carcass** was encountered. At 20 feet deep and 20.8 feet from the south end a **tank carcass the same size as a drum and a drum carcass** were encountered. No significant PID readings were observed, there was no staining or wetness on any of the metal objects, however a chemical odor similar to the scent of Lysol was detected. The total depth of the trench was 21 feet when water was encountered and native soil. The total length of the trench was 41 feet. After compaction 39 tons of #57 crushed limestone was required to fill the depression.

- CRA excavated test pit TT-26-13. A metal ring possibly from a semi-truck tire was encountered 1 foot below the ground surface. No other obvious metal objects were encountered. No significant PID or GEM readings were observed. Native soil was encountered at a depth of 13 feet. The water table was encountered at 21 feet. The trench was 21 feet deep and 35 feet long.

### 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes excavating test pit trenches near areas 4 and 5. Wednesday afternoon they expect to be excavating the test pit trenches on the main South Dayton Dump property.

### 4. Comment(s) on Work Observed/Controversial Matters:

- CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by

*wee these removed?  
any samples taken?*

## DAILY REPORT

**Project: South Dayton  
Dump (SDD)**

**Project #: 419879.FI.01**

**Date: 06/19/2013**

**Weather: Mostly Sunny**

**Precip: None**

**Temp: 70 °F 84 °F**  
**Min Max**

### 1. Personnel and Area(s) of Responsibility:

Name of Personnel	Hours	Employer	Location/Work Description
Brett Fishwild	4	CH2M HILL	Oversight of CRA's sampling
OsaguonaOgbebor	0	CH2M HILL	Oversight of CRA's sampling
Susan Kear	11	CH2M HILL	Oversight of CRA's sampling
Jason Close	11	CRA	Drilling, Logging of Cores and GW Sampling
Greg Lewis	11	CRA	Test Pit Excavation
Jeremy Teepen	11	CRA	Drilling, Logging of Cores and GW Sampling
Pat Cady	11	CRA	Drilling, Logging of Cores and GW Sampling
Dave Perez	11	CRA	Drilling, Logging of Cores and GW Sampling
Dean Boyle	11	CRA	Drilling, Logging of Cores and GW Sampling
Rick Hith	11	CRA	Drilling, Logging of Cores and GW Sampling
Sam Melesosky	11	CRA	Drilling, Logging of Cores and GW Sampling
Eric Mickelson	11	CRA	Drilling, Logging of Cores and GW Sampling
Curtis McMillan	11	Petro Environmental	Test Pit Excavation
Jason Hammann	0	Bloodhound	Utility Locate



## 2. Work Performed Today:

- CRA purged 4 (3,075 ml) well volumes at BH-56-13. Then the well was sampled for VOC's at 8:33 (GW-38443-061913-SM-036). A peristaltic pump was used for this well.

- CRA purged 9 (6,920ml) well volumes at BH-57-13. Then the well was sampled for VOC's and filtered PCB's at 10:35 (GW-38443-061913-SM-037) and a duplicate was collected at 10:40 (GW-38443-061913-SM-038). A peristaltic pump was used for this well.

-CRA collected equipment blank EB-38443-061913-SM-039 at 9:55.

- CRA Drilled to 30 feet at BH-52-13, logging the lithology and collecting PID readings. Native soil was encountered at 11.75 feet. The water table was encountered at 23.8 feet. A composite soil sample from 23.8 – 25.8 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. Soil VOC samples were collected at 21.8-23.8 feet (S-38443-061913-JC-014), a duplicated was also collected from this location (S-38443-061913-JC-015). 8 well volumes were purged (6,151ml). Then the well was sampled for VOC's at 13:20 (GW-38443-061913-SM-041). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-58-13, logging the lithology and collecting PID readings. Native soil was encountered at 11 feet. The water table was encountered at 23.5 feet. A composite soil sample from 23.5 – 25.5 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil sample was collected at 21.5-23.5 feet (S-38443-061913-JT-009) for VOC's. A duplicate (S-38443-061913-JT-010) was also collected from this location. 3 well volumes were purged (2,307ml). Then the well was sampled for VOC's and filtered PCB's at 13:27 (GW-38443-061913-SM-044). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-59-13, logging the lithology and collecting PID readings. Water was encountered from 7.5-8.7 feet. Native soil was encountered at 8.3 feet. The water table was encountered at 22.5feet. Composite soil sample were tested with a Sudan IV kit from 7.5-8.7 feet and 22.5-24.5 feet the tests did not indicate NAPL. PID readings of 164 ppm (0-2 feet), 179 ppm (2-4 feet), 154 ppm (4-6 feet) , 61.8 ppm (6-8 feet) and 36.8 ppm (20-22) were observed. Soil VOC samples were collected at 2-4 feet (S-38443-061813-JT-006), and 20.5-22.5 feet (S-38443-061813-JT-007). 5 well volumes were purged (3.845ml). Then the well was sampled for VOC's at 12:07 (GW-38443-061913-SM-040). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-60-13, logging the lithology and collecting PID readings. Water was encountered from 5.75-6.75 feet. Native soil was encountered at 10.5 feet. The water table was encountered at 22 feet. Composite soil sample were collected from 5.75- 6.75 feet and 23.5 – 25.5, these samples were tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil sample was collected from 20-22 (S-38443-061913-JT-021) feet for VOC's. The well was sampled for VOC's at 19:15 (GW-38443-061913-SM-045). A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-61-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.5 feet. The water table was encountered at 23.2 feet. A composite soil sample from 23.2 – 25.2 feet was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil sample was collected from 21.5-23.5 (S-38443-061913-JC-019) feet for VOC's. The well was sampled for VOC's at 19:22 (GW-38443-061913-SM-046). A peristaltic pump was used for this well.

- CRA Drilled to 60 feet at BH-62-13, logging the lithology and collecting PID readings. Native soil was encountered at 11 feet. The water table was encountered at 23.5 feet. A composite soil sample from 23.5 – 25.5 was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. Clay lenses were encountered at 32-33 feet, 37.25-38.75, and 51.8-52.6. All native soils except the listed clay lenses were sand and gravel with some silt. A soil sample was collected at 21.5-23.5 feet (S-38443-061913-JT-008) for VOC's and PCB's. 4.5 well volumes were purged (3,460 ml). Then the well was sampled for VOC's and filtered PCB's at 15:23 (GW-38443-061913-SM-043). A peristaltic pump was used for this well.



### Work Performed Today Continued:

- CRA Drilled to 30 feet at BH-64-13, logging the lithology and collecting PID readings. Native soil was encountered at 9.2 feet. The water table was encountered at 24 feet. A composite soil sample from 24 – 26 was tested with a Sudan IV kit that did not indicate NAPL. No significant PID readings were observed. A soil VOC sample was collected at 22-24 feet (S-38443-061913-JC-014). 8 well volumes were purged (6,151ml). Then the well was sampled for VOC's and filtered PCB's at 14:50 (GW-38443-061913-SM-042). A peristaltic pump was used for this well.

A peristaltic pump was used for this well.

- CRA Drilled to 30 feet at BH-68-13, logging the lithology and collecting PID readings. Water was encountered from 9.5-14.5 feet. Native soil was encountered at 10.5 feet. The water table was encountered at 23.5 feet. Composite soil samples were tested with a Sudan IV kit from 9-10 feet and 23.5-25.5 feet the tests did not indicate NAPL. A third composite soil sample was tested from 13-14 feet, the Sudan IV test reacted positively for NAPL showing pin pricks of red in the soil portion and red smearing on the walls of the vial in the water portion. PID readings of 237 ppm (0-2 feet) and 52.2 ppm (12-14 feet). Soil VOC samples were collected at 0.5-2.5 feet (S-38443-061813-JC-017), and 21.5-23.5 feet (S-38443-061813-JC-018). This well will be sampled on 6/20/13.

-CRA excavated test pit TT-27-13 CRA stated that historically a tank had been removed from this location and that the purpose of this test trench was to identify the location of the tank pad. Apparently after the tank removal the area was backfilled with sand. The sand fill made it difficult to keep the excavation open. A corner of the tank pad was identified 37' south of the light pole and 74 feet west of MW-225.

-CRA excavated test trench TT-30 and then TT-29. Trench TT-30 contained some debris consisting of bricks, concrete, and asphalt and smaller amounts of various items. Plastic sheeting and some kind of fabric was found at depth on the west end near the water table. No significant air monitoring or radiation results. Trench TT-29 then had more debris of brick, concrete, asphalt. Near the north end at depth were many concrete parking lot bumpers many of which we held together with rebar. A metal 5-foot long I-beam was found near the surface on the south end. No significant air monitoring or radiation results.

### 3. Work Planned for the Next Day:

- CRA will continue DPT drilling, logging and sampling. They will be boring holes excavating test pit trenches.

### 4. Comment(s) on Work Observed/Controversial Matters:

- CRA is completing Sudan IV testing at more locations than that specified in the USEPA approved work plan.

Susan Kear

Form Completed by



Is there ~~is~~ in our understanding of:

depth to native soil

NAPL - additional?

thickness / location of till